AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

NOVEMBER 15, 1957

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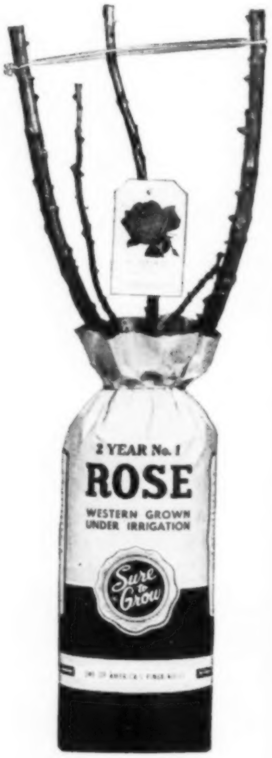

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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See Next Page.

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CONTENTS

Texas Festival Honors the Rose 7
By Joan Kilner Mills

American Elm Substitutes 10
By Clarence E. Lewis

New Garden Center Opens in Northwest 12
By Charles H. Potter

A Busman's Holiday 13
By A. O. Rasmussen

Beginning in the Nursery Business 14
By John J. Pinney

The Art of Talking by Mail 36
By John R. Riebel

Plant Notes Here and There 52
By C. W. Wood

Connecticut Arborists' Short Course 105
By Harold O. Perkins

* * *

Editorial 6
—Thanksgiving 6
—Seasonal Promotions 6
—Sales Outlook 6

Danish Rose Hybridizer at Texas Rose Festival 9

Coming Events 16
—Meeting Calendar 16
—Propagators' Meeting 16
—Wisconsin Meet Details 26
—New York Schedule 26
—Program for Minnesota 28
—North Carolina Date 30
—Arizona Program 30
—Western New York Date 32
—Meet, School for Idaho 32

Fire Ant Hearing 32

Cover Illustration 33
—Juniperus Horizontalis Bar Harbor 33

Christmas Tree Grades 42
Atlas Rose Farms Charge 42
New Jersey Session 42
Dwarf Shrubs 43

This Business of Ours 44
—Plant Origins 44

Soybean Cyst Nematode 46
Heads Corning Planting 46
St. Louis Elections 47
Firm Draws F. T. C. Order 48
Opens Indiana Center 49

California Arborists 66
California Notes 67
Oregon Chapter News 69
Panzer Firm Sold 71
Opens Patio Exhibit 71
Rose Honors Awarded 81
Oregon Notes 84

Win New Mexico Awards 86
Tulsa Nurseryman Dies 86
Contractor Dies 86
Propagation Handbook 97
New T. A. N. Unit Urged 98
All-America Gladiolus 98
All-America Mums 99
New Bulb Company 100
Plant Patents 101
Designs Airport Garden 102
Introduce New Felicia 103
Stan Says 104

INDEX TO ADVERTISERS

Advance Adhesives, Inc. 94
Advance Process Supply Co. 92
Afton Seed Co. 62
Alanwold Nursery 40
Allen Co. 102
American-Dutch Trading Co., Inc. 106
American Landscape School 81
Angelica Nurseries 40
Anthony Lake Nursery, Inc. 64
Appalachian Evergreen Co. 90
Aquatrols Corp. of America 91
Arab Nursery Co. 53
Armintrout's Evergreen Nursery 42
Armstrong Nurseries 69
Arp Nursery Co. 58
Asplundh Chipper Co. 106
Atkin's Sons, L. 84

Bagatelle Nursery 38
Bailey Nurseries, J. V. 50
Baker Nurseries 52
Baker's Nurseries 32
Ball, Inc., Geo. J. 92
Barry's Evergreen Nursery 30
Bartlett Mfg. Co. 96
Beardslee Nursery 44-45-50-53
Benedict Nursery Co. 69
Benson-Maclean 101
Bentley's Hardy Plants 53
Berryhill Nursery Co. 46
Bird & Son, Inc. 15
Blackwell Nurseries 56
Blue Ridge Evergreen Co. 93
Bobbink Nurseries, Inc. 16
Bosley Nursery 42
Boulevard Nurseries 40
Boyd Nursery Co., Inc. 64
Brookdale-Kingsway, Ltd. 60
Brookfield Gardens 41
Brouwer's Nurseries 40
Brownell Farms of Oregon 89
Bryant's Nurseries 48
Bulk's Nurseries 40
Buntings' Nurseries 38
Burr & Co., Inc., C. R. 32

Cabot, Inc., Samuel 90
California Garden Specialties 89
Carpenter & Co., George B. 92
Cartwright Nurseries 18-19
Cellusuede Products, Inc. 92
Chase Co., Benjamin 104
Chase Nursery Co. 56
Claremont Waste Mfg. Co. 33
Clarke & Co., W. B. 24
Classified Ads 72 to 81
Cloverset Farm 97
Cole Nursery Co. 49
Commercial Nursery Co. 51
Conard-Pyle Co. 41
Congdon Nursery, Ivan R. 40
Cottage Gardens 46
Cumberland Valley Nurseries, Inc. 51
Cunningham Gardens, Inc. 41
Curtis Nurseries 40

Danegger's Hi-Way Nursery, Inc. 40
Darling Co., J. L. 95
Dayton Fruit Tree Label Co. 99
Deerfield Nurseries 41
Del-Mar-Va Nurseries 37
Descanso Distributors, Inc. 66
Diamond State Nurseries 38
Dible Nursery, Sam 30
Doty & Doerner, Inc. 70
Dunwoody Co., Ezl. 87

Eagle Creek Nursery Co. 49
Economy Label Sales Co. 96
Elmer Roses 66
Evergreen Nursery Co. 50
Evergreen Specialty Co. 25

Fafard, Inc., Conrad 88
Fairview Evergreen Nursery 38
Feeney's Nursery 30
Felins Tying Machine Co. 97
Fern Hawaii Co. 91
Floc-Flo Engineering Design 29
Floral Gardens Nursery 50
Flower Grower Magazine 97
Flowerwood Nursery 56
Forest Nursery Co., Inc. 56
Foster Nursery Co., Inc. 36
Fraser Nursery, Samuel 38

Garden Shop, Inc. 106
Gardner's Nurseries 16
Geiger Co., E. C. 100
Gilson Gardens 48
Gledhill Road Machinery Co. 104
Glen St. Mary Nurseries Co. 59
Globe Nurseries 60
Gresham's Nursery 63
Grootendorst & Sons, F. J. 60
Growers Exchange, Inc. 31
Growers Sign Service 91
Gulf Stream Nursery, Inc. 48
Gutbrod Co., A. H. 84

Half Moon Mfg. & Trading Co. 94
Halpern Bros. 97
Handy Things Mfg. Co. 94
Hartigan, Philip 99
Heller Greenhouse Laboratories 81
Herbst Bros. Seedsmen, Inc. 1
Hess' Nurseries 26
Hill Nursery Co., D. 108
Hillenmeyer Nurseries 61
Hobbs & Sons, Inc., C. M. 46
Hoffco, Inc. 105
Homestead Nurseries 57
Horsford, William Crosby 36
Howard & Smith, Inc. 66
Howard-Hickory Co. 50
Howards of Hemet 5
Humphreys Landscape Service 61

Ilgenfritz Nurseries Co. 50
Illinois State Nurserymen's Assn. 16

Jewell Nurseries, Inc. 47
Johnston, William A. 94

Kallay Bros. Nursery 45
Keeler's Gardens 60
Keeling Nursery, Forrest 42
Kingwood Nurseries 44-48-50
Klyn, Inc., Gerard K. 46
Krieger's Wholesale Nursery 53

LaBars' Rhododendron Nursery 41
Laird's Nurseries 53
Lake County Nurserymen's Assn. 42
Lake Sammamish Evergreen Nursery 66
Lansing Specialties Mfg. Co. 99
Larvacide Products, Inc. 88
Laurel Lake Nursery 62
Leeland Farms 65
Leonard & Son, A. M. 106
Lerio Corp. 103
Lindig Mfg. Co. 98
Lindley Nurseries 61
Lovett's Nursery, Inc. 40
Lustgarten, Baier 27

Maloney Bros. Nursery Co., Inc. 36
Martin Co., Inc., Joseph F. 49
Matthews Nursery 49
May Nursery Co. 70
McGee Nurseries, Lowell H. 59
McGill & Son, A. 70
McIninch Greenhouses 48
Meehan & Sons, Thomas 102
Menne-Pot, Inc. 87
Metropolitan Greenhouse Mfg. Corp. 95
Michigreen Nursery 50
Milton Nursery Co. 70
Mist-O-Gation, Inc. 30-102
Mitsch Nursery 71
Monrovia Nursery Co. 54-55
Monticello Nursery Co. 64
Moorestown Gardens, Inc. 30
Moran, E. C. 62
Morning Star Nursery 62
Morris Nursery, Ltd., C. D. 63
Mount Arbor Nurseries 2
Mount Hood Nursery 68
Mulco Products, Inc. 95
Multiplex Display Fixture Co. 101
Musser Forests, Inc. 28
Mutual Fruit Co. 71

National Bundle Tyer Co. 102
Native American Holly Farms 40
Natorp Co., W. A. 45
Neumann Bros. 44
New Amsterdam Import Co. 99
New Jersey Farm Supply Coop. Assn. 86
Newport Nursery Co. 42
New York Twine Corp. 90
New Yorker Bag & Burlap Co. 85
Noleridge Nurseries 64
Nursery Sales, Inc. 38
Nursery Specialty Products, Inc. 39

Onarga Nursery Co. 45
Oregon Bulb Farms 68
Ottmann & Son, George 50
Owen & Son, T. G. 60
Ozark Nursery Co. 60

Pacific Coast Nursery 68
Pacific Northwest Rose Nursery 69
Pallack Bros. Nurseries, Inc. 37
Palmer & Son, J. R. 99
Peace & Son Nursery 62
Pearce Seed Co. 59
Pedigreed Seed Co. 64
Peekskill Nursery 38

Perry Nursery Co., O. H. 65
Peterson & Dering 17
Phytotektor 51
Pierson, Inc., A. N. 36
Pikes Peak Nurseries 16
Pinkston Nurseries 64
Plumfield Nurseries, Inc. 43
Portland Wholesale Nursery Co. 46
Premier Peat Moss Corp. 83
Premier Southern Ticket Co. 98
Princeton Nurseries 16
Progressive Equipment Co. 98

Rambo's Wholesale Nurseries, L. J. 42
Ra-Pid-Gro Corp. 104
Ravensberg, Maurice C. 57
Ray Co., Carl 61
Reinco Engineering & Mfg. Co. 104
Reynolds, Harry H. 97
Rich & Sons Nursery 70
Rickert Nurseries 40
Robinson Sales Agency, E. D. 41
Rootspred 92
Roseman Tractor Equipment Co. 84
Rough Bros. 101
Ryan Landscaping Equipment Co. 90

S-W Supply Co. 84
Saffer, Al 83
San Isabel Seed Co. 57
Scarff's Nursery 42
Schumacher, F. W. 30
Schupp Florist Supply Co. 103
Select Nurseries, Inc. 70
Semmes Nurseries 56
Shahan Nurseries 56
Shenandoah Nurseries 107
Shepard Nurseries 16
Sherman Nursery Co. 47
Sherwood Nursery Co. 67
Shore & Co., J. 104
Skinner & Co., J. H. 58
Skinner Irrigation Co. 102
Smith Corp., W.-T. 32
Smith Nursery, R. Brumond 44
Sneed Nursery Co. 64
Soil & Plant Research, Inc., Laboratories of 94
Somerset Rose Nursery, Inc. 36
Southern Nursery & Landscape Co., Inc. 57
Split Rock Nurseries 40
Springbrook Gardens 45
Standard Engineering Works 105
Star Lumber Co. 96
State College Laboratories 99
Stedman Nurseries, Inc. 30
Steele's Pansy Gardens 62
Sterling Bag & Burlap Co. 98
Stribling's Nurseries 71
Sudbury Laboratory 95
Summit Nurseries, Inc. 48
Suncrest Evergreen Nursery 38
Supreme Electric Products Co. 102
Sutton Nursery & Landscape Co., Inc. 48
Sylvan Dell Nursery 32

Tankard Nurseries 56
Tennessee Valley Nursery 58
Teufel's Holly Farm, George 85
Texas Nursery Co., 59
Towson Nurseries, Inc. 32
Tree Angle Nurseries 62
Tritschler's Nursery 62

Union Products, Inc. 88-104

Vanderbrook Nurseries 16
Vandermolen Export Co. 93
Van Speybroeck, Arthur 49
Van Veen Nursery 71
Verhalen Nursery Co. 53
Verkade's Nurseries 36
Verona Gardens 48-49
Vuyk Van Nes Nurseries 38

W-W Grinder Corp. 100
Wade Christmas Tree Farms 46
Wade & Gatton Nurseries 49
Want Ads 82
Waynesboro Nurseries 65
Wayside Gardens 43
Weeks Wholesale Rose Grower 20
Wells Nursery, Inc., James S. 40
Whalley, J. B. 69
Wherry's Nurseries 63
Whiterock Nurseries 65
Wight Nuseries 65
Williams, Isaac Langley 38
Williams & Harvey Nuseries 98
Willis Nursery Co. 21
Willowbend Nursery 45
Wilson Nurseries, C. E. 64
Wire Basket Co. 67
Wirth, Hermann A. 90
Wood Products Co. 100
Wyman Nursery 22-23

York Modern Corp. 91

Zelenka Evergreen Nursery, John G. 45

Forms for the December 1 issue will close Friday, November 15.

Forms for the December 15 issue will close Friday, November 29.

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The Mirror of the Trade

Editorial

THANKSGIVING

Thanksgiving day is the most closely associated with the home of all the holidays in the year. The food-laden table which is symbolic of the occasion has a fitting place in the dining room of the home, not in a restaurant or cabaret, as on New Year's eve. The Pilgrim fathers, in starting the observance of this harvest festival, created it as an occasion of family thanksgiving and community gratitude for generous crops.

Because he adds to the beauty and the comfort of the home by the plantings in its grounds and gardens, the nurseryman has a place in the picture of the Thanksgiving day celebration. This is well described in the statement of his mission, "To make America more beautiful and fruitful."

From a directly material point of view the nurseryman has good reason to celebrate the occasion this year, because the continued high level of home building and the widespread interest in gardening have caused him to prosper. For his share in the advance of beauty and bounty through nature's yields, the nurseryman feels full participation in the day of thanksgiving for himself, for his family and for his community.

SEASONAL PROMOTIONS

Opportunity awaits those garden center operators who will put forth a special effort in promotion at special days or seasons of the year. With observation of what other such operators and retail merchants are doing, plus some imagination and creative thinking, the garden center operator can attract large crowds to his place of business.

An example of this was recently observed in a Halloween promotion of a suburban garden center near Chicago, Ill. Several weeks prior to Halloween several hundred pumpkins were piled in a fenced area to allow visitors to select their own pumpkins and pay for them at a nearby cash register. Dried cornstalks, birch logs, potted plants and other fall decorative items were also for sale.

On Saturdays and Sundays an added attraction was a "pumpkin man," dressed in an orange felt suit, with a large pumpkin head, who talked to the children, giving each a free candy sucker. Photographs of the interviews were snapped, and prints were mailed at a reasonable cost to the children's parents. Adding to the festivities, a clown mingled with the crowd. Refreshments were available at a price.

Hundreds of adults and children roamed the grounds, and cars lined the highway and parking area. Either before or after buying their pumpkins and interviewing the "pumpkin man," visitors toured the garden center, many making additional purchases.

It is not necessary to undertake such an elaborate production. Children purchase pumpkins somewhere, and what better way to draw their parents to your place of business than to stock several hundred pumpkins, advertise the fact and let the children and parents have fun making their selection.

The benefits from such a promotion are obvious. It will attract people who might otherwise never see your garden center; it will create good will, and will result in current and future sales.

SALES OUTLOOK

A democracy is a great thing in the life of a nation, in its economic aspect as in some other phases. This is not a new or original observation, but it bears repeating in the light of recent business events. Too often economists, especially of the political variety, are likely to be influenced by wishful thinking in spite of themselves. Certainly most businessmen are.

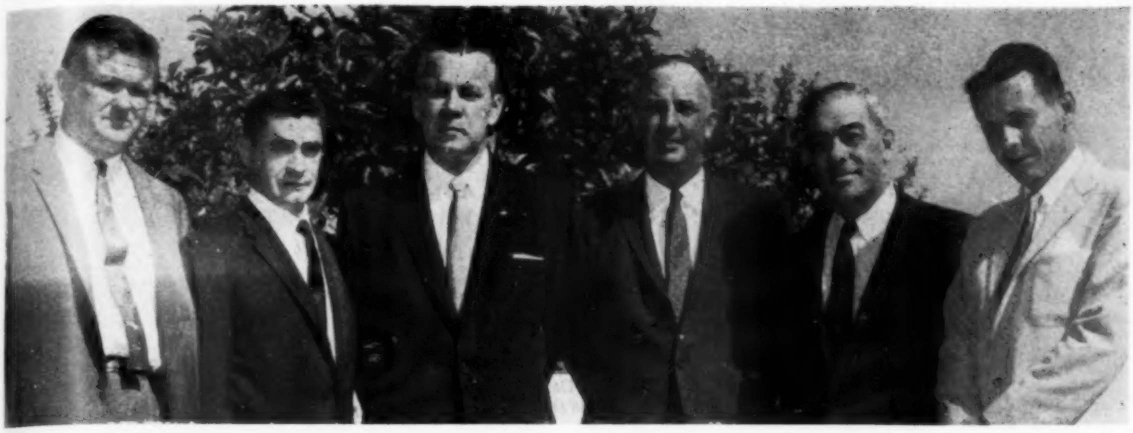
But last summer and early fall the signs were plain to see that retail trade was not going ahead in the buoyant fashion it had been following. In fact, retail trade fell slightly behind, instead of picking up as usual after Labor day. In spite of this fact, some manufacturers continued to pile up inventory, and assurances were issued from the nation's capital that if the public would spend conservatively and inflation could be checked by not incurring unnecessary debts, all would be well with the economy of the nation.

The signs have been magnified that all is not well. Most emphatic, because it gets on the front page of the newspapers, has been the stock market decline. By this time large manufacturers have become more realistic and have taken steps to bring production more nearly into line with demand, and even the government has decided not to underwrite home-building mortgages at a high rate of interest. The general public, as has been said, pointed the way of current business a couple of months ago.

While it is better for the health of the general economy that these readjustments have been made and that everybody will appraise the future with more realism than some have done in the past, this is not the time for undue pessimism. This is particularly true in the case of nurserymen, who have followed the figures on home building with some apprehension as they drifted downward. Recent reports indicate an increase in sales of several large building material manufacturers in the second half of this year, in contrast to the first half. Construction men, too, are optimistic on the outlook and expect the pace of home building to continue, if not gain. The important force behind this development is the expanding population, which continues at a rate that crowds schools, new and old, and crowds old homes to the necessity of building new ones.

Of course, nurserymen are actually dependent on newly finished homes, not building starts, for their business in that direction. And there are still enough of the former to provide ample business for a considerable time ahead. As has been stated before, there is also the opportunity of obtaining much business from replanting old homes, which have been somewhat neglected during the time that the trade has been primarily concerned with planting the new ones.

FEATURES of a recent 2-day open house held at Hick's Nurseries, Inc., Westbury, L. I., N. Y., were exhibits on planting and maintenance techniques and plant identification. A panel of experts was also on hand to answer visitors' gardening questions



Nursery industry representatives at the Texas Rose Festival: Left to right, L. A. Dean, president, Texas Association of Nurserymen; David S. Stump, president, All-America Rose Selections; C. J. Lauden, director for region V, American Association of Nurserymen; John Fraser III, president, A. A. N.; Richard P. White, executive vice-president, A. A. N., and W. R. Fullingim, executive secretary, Texas Association of Nurserymen.

Texas Festival Honors the Rose

By Joan Kilner Mills

The 20th annual Texas Rose Festival, October 18 to 20, drew visitors to Tyler, Tex., from all over the United States and from several foreign countries, with the 3 millionth festival visitor welcomed this year. Over 150,000 persons attended the events of the 3-day celebration, including a gorgeous rose show, colorful parade, beautiful coronation, lavish balls, queen's tea, rose field tours and a rose vesper service.

It was feared that some festival events might be rained out and the supply of rose blooms curtailed when torrential rains fell almost continually for two and one-half days preceding the festival. But clear skies prevailed, as for every previous rose festival, and no more rain fell until the day after the festival was over.

East Texas has had ample rainfall this year and not such extremely high summer temperatures as during the past seven or more years of drought. Consequently, rosebushes are in fine condition, and blooms were in abundant supply for festival decorations. For the first time in festival history, the days were pleasantly cool, instead of hot, with daytime highs in the 60's and low 70's and nighttime lows from 42 to 50 degrees.

Started 24 years ago from the inspiration of a local attorney when he saw Tyler-grown rosebushes at the World's Fair at Chicago in 1933, the Tyler Rose Festival soon expanded into the East Texas Rose Festival and later the Texas Rose Festival. And over the years the field-grown rosebush industry around Tyler likewise has grown, until today it is a $7,500,000 annual business, with 325 carloads of rosebushes shipped annually to 48 states and 25 foreign countries.

Musicals Rose Show Theme

Snipping of a ribbon at the Garden Center building at the Municipal Rose Garden, Friday morning, October 18, marked the official opening of the 20th annual Texas Rose Festival. Miss Kay Howard, Tyler, queen of the 1957 festival, and Svend Poulsen, Copenhagen, Denmark, famous rose hybridizer, held the scissors. Dr. Logan Wilson, president of the University of Texas, introduced Mr. Poulsen. C. J. Lauden, Consolidated Nurseries, Inc., as vice-chairman of the city commission and mayor pro tem, presented the key to the city to Mr. Poulsen.

Richard P. White, A. A. N. executive vice-president, left, receives the Arp award of the Texas Association of Nurserymen from T. A. N. president L. A. Dean at men's luncheon during the Texas Rose Festival.

Immediately after these ceremonies, doors were opened to the rose show in the Garden Center building; the show was open all three days of the festival. The show was divided into two parts, the first section a stylized extravaganza portraying with roses nine famous musicals, and the second part a Disneyland-type garden for children. Ray Breedlove, Breedlove Nurseries, Tyler, was cochairman for the show. Dick Garner, Flower Fashions, Dallas, directed the staging. Both rose growers, Paul Shamburger, Tyler, was vice-chairman in charge of roses for the show and other festival decorations, and William McGinney, Tyler, was rose procurement chairman. Millions of blooms were donated by Tyler rose growers.

The show theme, "Music and Roses," was carried out through scenes reminiscent of nine well-known musicals. Entry to this part of the show was through a corridor whose walls were simulated to appear as fences, with unusual old wood carvings of angels and cupids on pedestals garlanded with roses.

A map of Texas over a corral

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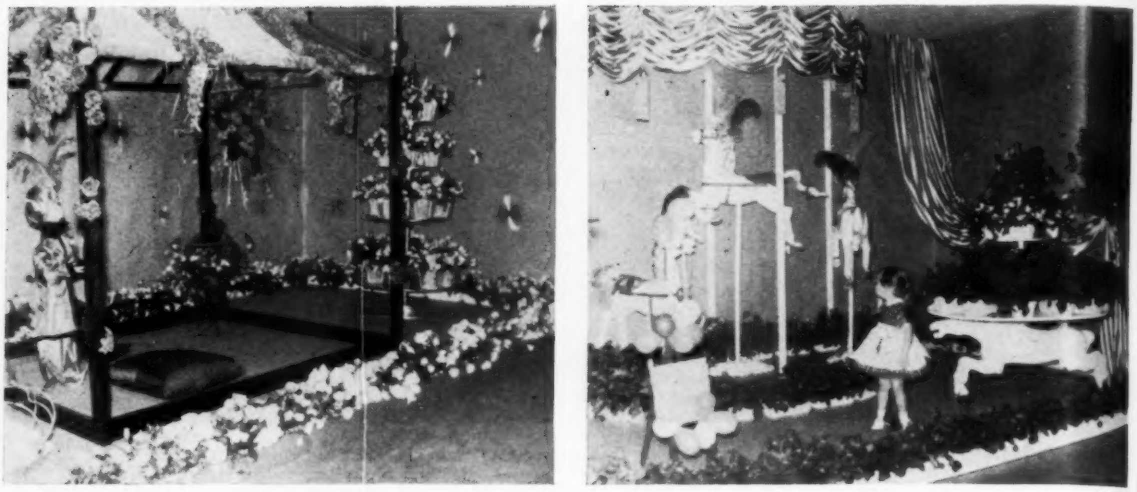
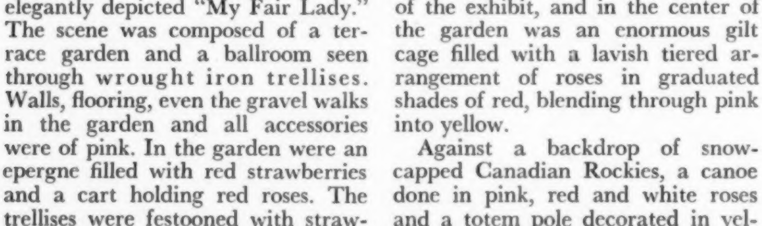


Two of a group of exhibits at the 1957 Texas Rose Festival that portrayed the themes of famous musicals: Left, orange-yellow roses in an exotic setting depict the production "The King and I"; right, red roses add color to the suggestion of "Carousel."

scene done with "the yellow rose of Texas," cacti, pine boughs, mesquite, sagebrush, a steer skull, western saddle, silhouettes of a cowboy and bronco were used to portray "Texas Li'l Darling." A dainty Victorian setting all in pink and red elegantly depicted "My Fair Lady." The scene was composed of a terrace garden and a ballroom seen through wrought iron trellises. Walls, flooring, even the gravel walks in the garden and all accessories were of pink. In the garden were an epergne filled with red strawberries and a cart holding red roses. The trellises were festooned with strawberries and red roses, and red roses bordered the entire exhibit.

Largest of the exhibits was a lush tropical garden filling the center section of the room and representing "South Pacific." Tropical foliage plants, vines, hanging moss, and palm trees filled the garden leading up to an island tea house. Colorful live birds in unique cages were a feature of the exhibit, and in the center of the garden was an enormous gilt cage filled with a lavish tiered arrangement of roses in graduated shades of red, blending through pink into yellow.

Against a backdrop of snow-capped Canadian Rockies, a canoe done in pink, red and white roses and a totem pole decorated in yellow and red Forty-Niner roses brought to mind a setting from the operetta "Rose Marie."



A. A. R. S. float ridden by Betty Dean, left, and Shirley House, A. A. N. duchess, in Texas Rose Festival parade.

A merry-go-round was, of course, the center of interest in the exhibit depicting "Carousel." Three white horses decorated with pink, red and white plumes formed the carousel under a red and white striped satin canopy and revolved on a base of red roses. At one side of the exhibit was an ice cream stand decorated with balloons and roses and at the other a tiered table atop a merry-go-round horse, with baskets of red roses covering the tiers. The entire exhibit was bordered by red roses.

An exotic scene was that portraying "The King and I." A figure representing the Siamese king, a Siamese bird cage and satin pillow were under a canopy of orange satin on black supports. The canopy was decorated with hanging clusters of large glittered green grapes and orange and green wax full-blown rose blooms. Globe-shaped gold candleholders with orange tapers stood atop each corner. On the rear wall was a large sunburst of gold metal, with much smaller gold sunbursts scattered over the rear and side walls. In the center of the large sunburst was a gorgeous Della Robbia-like arrangement of pineapples, grapes, echeveria and roses. At either side of the pagoda were 4-tiered trees holding gilt baskets filled with orange-yellow toned roses, and the entire exhibit was bordered with the same color roses.

Entirely in shades of pink, from palest tints to deep mauve, was the "Showboat" scene. It featured the figure of a woman waving goodby to the showboat that could be seen from the New Orleans-type balcony on which she stood. Featured in the "Kiss Me Kate" exhibit was the masked figure of a troubadour playing the mandolin and some unique bird cages said to be valued at over $500 each, with pink roses decorating the scene.

Last of the musicals depicted was a French sidewalk cafe setting against a Moulin Rouge background, to represent "Can-Can." The skirts of the can-can girls were decorated with pink roses, the table was set with champagne and roses and to one side was an Eiffel tower formed of pink roses.

Fantasy Children's Garden

The entire greenhouse portion of the building was transformed into a "Child's Fantasy Garden," designed and carried out by the Tyler Council of Garden Clubs. It was as enchanting to the adult viewers as to the children, especially the youngest ones, who squealed with delight on recognizing their many nursery rhyme and storybook friends represented throughout the garden. Painted wooden soldiers and wooden rose trees decorated with real pink rose blooms flanked the entry to the garden, which was set under a canopy of blooming bougainvillea and hanging moss. Viewers circled the garden by a brick walk to see closely each storybook scene that made up the large fantasy garden. The scenes were separated by a winding white gravel path, and in the center was a pool.

Mostly floribunda, polyantha and miniature roses and other plants with small foliage and flowers were used to keep the garden child-size. There was a scene portraying "Mistress Mary quite contrary, how does your garden grow?" in which tiny rock gardens were set in each corner against little white picket fences. A mannequin of Mistress Mary sprinkled from a watering can her "silver bells and cockle shells," which were flower faces painted on pie plates set on a metal stake, with either a shell or silver bell tied around the neck. Little Boy Blue slept under a haystack while his cows and sheep nibbled in a meadow and cornfield of roses. "Froggie Went a-Courting" was a garden scene of Floradora roses. Mickey Mouse, Ducky Daddles, Cinderella and Raggedy Ann had a rose birthday party in the garden of Johnny Appleseed under an apple tree having real apples tied to the branches with red ribbons.

Rock-a-bye baby rocked in a pink cradle of roses in a treetop. The Little Red Hen tended her barnyard rose garden. Alice in Wonderland looked into her mirror to find Rose Wonderland. The cow jumped over

[Continued on page 59]

Rose Queen Kay Howard on Royal Float at Texas Rose Festival

DANISH ROSE HYBRIDIZER AT TEXAS ROSE FESTIVAL

Svend Poulsen, 73-year-old rose hybridizer from Denmark, made his first trip to the United States in October and was welcomed to Tyler, Tex., October 16, as an honored guest for the Texas Rose Festival. He was the guest of Carl Shamburger, who visited Mr. Poulsen in Europe several years ago. Before going to Tyler, Mr. Poulsen visited rose growers in Pennsylvania and California.

With his two brothers, Paul and Dineen, business manager and grower, respectively, Svend Poulsen operates D. T. Poulsens Planteskole, Copenhagen Valby, Denmark. About 1908 the firm set out to develop rose varieties suited to the Scandinavian climate, and its introductions were the predecessors of the type of roses which are now known as floribundas. They were a cross between the polyantha and hybrid tea. In quick succession the Poulsen firm introduced a number of varieties that were exceptionally hardy, vigorous and free blooming and created a sensation in Europe.

Beginning with Ellen Poulsen and Little Red Riding Hood, there followed a number of varieties named for members of the Poulsen family . . . Harriet Poulsen, Else Poulsen, Grethe Poulsen, Kirsten Poulsen and so on. In 1933 the Karen Poulsen rose was awarded the gold medal at the National Rose Society show at London, England. Since that time many others in this class of roses have been developed by Svend Poulsen, and a number have become popular in the United States as well as in Europe, notably Irene of Denmark and Poulsen's Bedder.

Svend Poulsen, Danish rose hybridizer, right, at Texas Rose Festival as the guest of Carl Shamburger, left, of Shamburger's Rose Nursery. In the center is Rose Queen Kay Howard.

Tips for Better Landscapes

American Elm Substitutes

By Clarence E. Lewis

Department of Landscape Architecture, Michigan State University, East Lansing, Mich.

Every so often certain trees are suggested as possible replacements for the American elm, in the event that it is ever obliterated by the Dutch elm disease or phloem necrosis. Let us hope this never happens, and it is doubtful that it ever will. But, in any event, two trees that have been mentioned occasionally as American elm substitutes are the saw-toothed zelkova and the Amur cork tree. Both are worthy of discussion. Their forms do, in a sense, resemble the umbrellalike shape of the American elm, with the zelkova bearing the closer resemblance.

Both trees were first introduced into cultivation a few years before the American Civil War. Seeds of the zelkova were sent by either Dr. Hall or Thomas Hogg to Parsons Nursery, Flushing, N. Y. The best trees of this species at one time were on Dr. Hall's property at Bristol, R. I., where they ranged upward to about 70 feet. I have been told that these trees produced large crops of seeds and that numerous seedlings appeared in their vicinity.

Zelkova serrata has several common names, among the most notable being saw-toothed zelkova, keaki, Japanese keaki and Japanese zelkova. It also has served under a variety of scientific names that include Zelkova acuminata, Z. hirta, Z. keake, Planera acuminata and Planera japonica.

It has a root system somewhat similar to that of most members of its family (ulmaceae) — fibrous, shallow and far reaching. In spite of this, lawns do not seem to find it difficult to establish themselves beneath its branches, nor do nearby plants suffer from its being an overly ambitious feeder. Transplanting is not a difficult operation, even when larger trees are involved.

Branching Habit

The saw-toothed zelkova usually appears with a short trunk that divides into many ascending branches, as may be seen in illustration A. This tree also produces weak crotches, which can be cabled to prevent splitting. As weak as these crotches appear to be, the tree does not usually suffer because of this deficiency. While the tree is young it can be pruned so that a high trunk of four feet or more results. Illustration B indicates that even with a higher main trunk weak crotches predominate.

The tree in illustration C is approximately 20 years old and has attained a height of 18 feet; so it is apparent that Z. serrata is not fast growing. When young whips are observed in the nursery they seem incapable of ever becoming useful trees, but they do become most useful. The form shown in illustration C resembles that of an American elm, except that it has a finer texture, which is accentuated by the delicate young branchlets. Their irregular pattern can be seen in illustration D. Even though the branchlets appear to be a bit thin, dry weather does not cause any excessive damage. Rugged winters may sometimes cause the tips to be killed back.

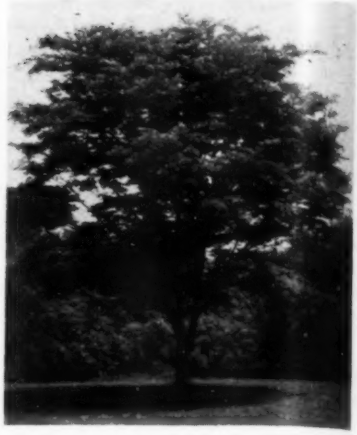


Illustration C—The form of this zelkova resembles the American elm in many instances.

This zelkova can become a tree nearly 100 feet high, but it takes many years for it to reach even 50 feet—possibly a lifetime. It is quite hardy and has withstood temperatures to 10 degrees below zero and even lower.

The leaves, shown in illustration D, are narrower than those of the American elm and cleaner appearing. The margin is not truly serrated, since each tooth has a curved

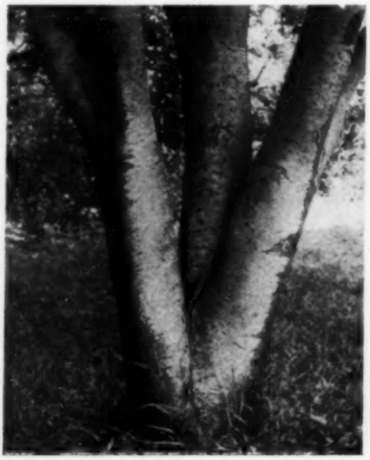


Illustration A—Zelkova serrata has the tendency to grow with a short trunk and several ascending branches.

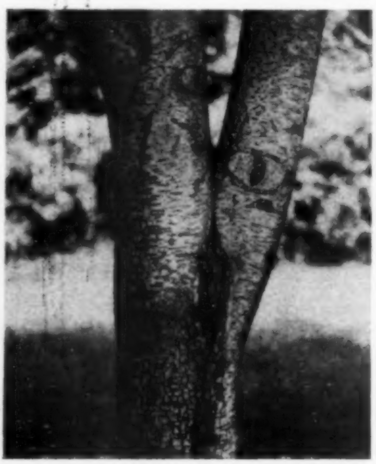


Illustration B—Japanese zelkova can be trained with a main stem, but continues to develop a weak crotch.

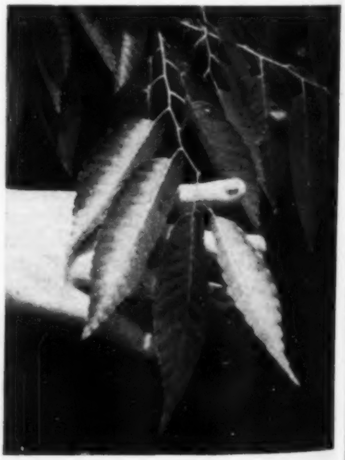


Illustration D — Zelkova leaves are clean and long-pointed and have curved teeth that are interesting.

XUM

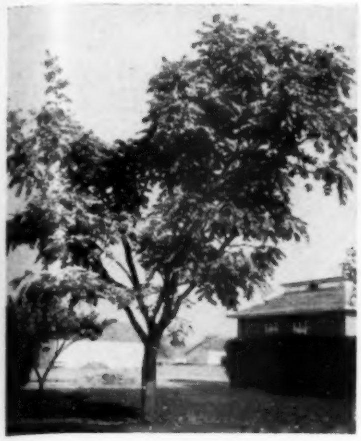


Illustration E — The Amur cork tree has an upright arching habit that is attractive when branches are in leaf.

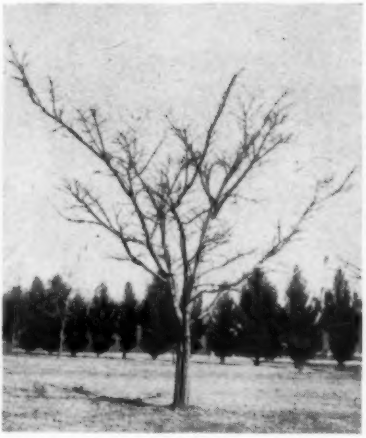


Illustration F — During its dormant period, Phellodendron amurense appears coarse because of its rugged branches.

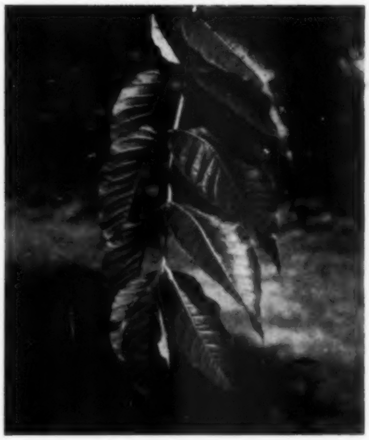


Illustration G—The compound leaves of the Amur cork tree produce leaflets that are large and long-pointed.

edge below its point. The leaves are unique among the leaves of other deciduous trees in this respect.

There are other points to aid in the recognition of this fine tree. The leaf scars are exceedingly small underneath the alternately arranged buds, as can be seen in illustration H. There are distinct, short, raised lateral lines (lenticels) on the older stems that give an appearance comparable to that of the elm and possibly the birches, hazelnuts and alders. These lines can be seen readily on the left main stem shown in illustration B.

There are supposedly about five zelkova species, but only one in addition to serrata is generally known. This is the hornbeam zelkova, Z. carpinifolia, which was introduced into cultivation about 100 years earlier than Z. serrata but never seemed to gain popularity.

Z. serrata was used at one time for making jinrikishas by the Japanese, and noble specimens of the tree can be found in the temple gardens of that country and along its roadsides. It is also an excellent lumber tree in Japan, I have read.

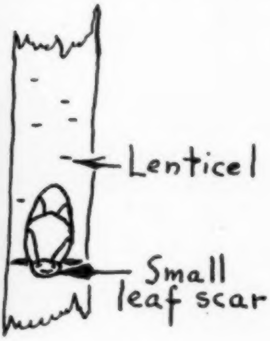


Illustration H—Leaf scars of Zelkova serrata are exceedingly small underneath the alternately arranged buds.

The saw-toothed, or Japanese, zelkova makes a fine lawn tree for shade, since a terrace or an outdoor living room can be planned beneath its arching branches. It is ideal, too, for the front of the home, because there is no tendency for it to conceal the house or landscape beyond. Potentially a serviceable street tree, it has probably not been considered as such because of the absence of enough trees of sufficient size in nurseries to interest civic associations, utility companies, park commissions and homeowners.

Cork Tree Form

The other possible elm replacement, Amur cork tree, Phellodendron amurense, is considerably different from the zelkova. Illustration E, showing a tree with foliage, and illustration F, depicting a tree during the winter, give true pictures of the umbrellalike form. As the tree matures, after 30 or more years, there is the tendency for it to be more rounded, but this is also true of old American elms that have short main trunks. The trunk heights of cork trees vary, depending upon the preference of the person who did the training. This treatment has an effect upon the appearance and use of the tree in later life.

There are eight or nine species, but only about five are listed in nursery catalogs, and usually the Amur cork tree is the only one that can be bought in any quantity. Even that item is not easy to find. Hardiness is no problem, either wind or temperature wise. This tree has withstood temperatures of 20 and 30 degrees below zero, but, of course, enjoys a little milder climate.

Phellodendron amurense is a medium-size tree that does not usually exceed 45 to 50 feet. The tree shown in illustrations E and F is about 20 years old and nearly 20 feet high. Illustration F shows the rugged branches of this tree, which give it a coarse winter appearance. The foliage tones down the coarse aspect, as can be seen by referring again to illustration E. This coarse tree suggests strength, which is emphasized when a row of the subjects is used along a street or in the center panel of a boulevard. When planted beside a building or in competition with other trees it gives the impression of scoring more weight for the area in which it is used. One large phellodendron could balance three trees of equal size, such as Sophora japonica (scholar's tree), Ulmus pumila (Siberian elm) and Gleditsia triacanthos (honey locust). This is not a condemnation of this excellent tree, but an evaluation.

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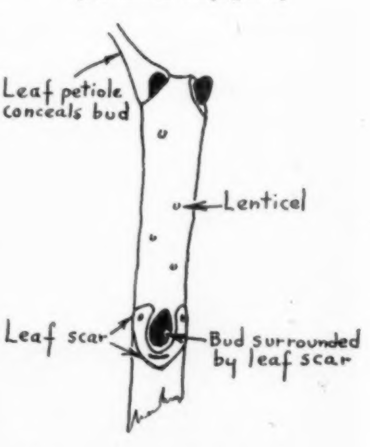

Illustration I — Phellodendron amurense leaf scars are large and horseshoe-shaped, with a hard orange-brown bud in the center.

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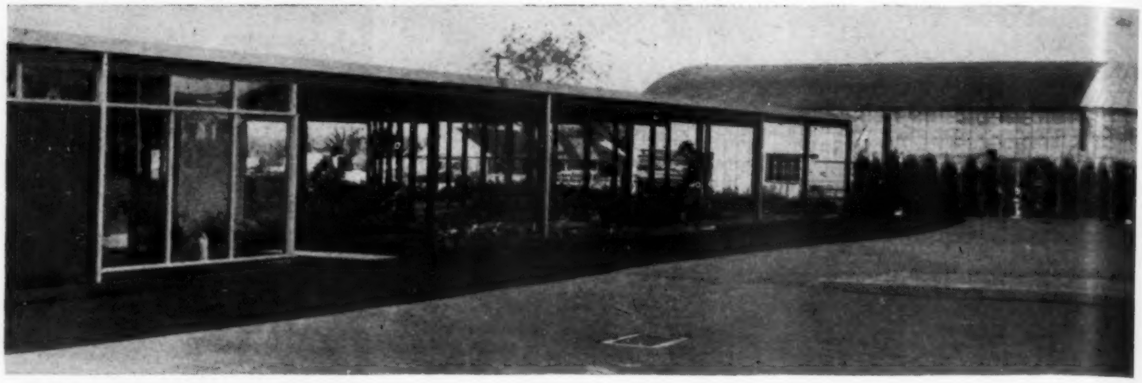


Junay's Garden Shop and Sales Area at Portland, Ore., Viewed Across a Section of the Firm's Parking Lot

New Garden Center Opens in Northwest

By Charles H. Potter

One of the Pacific northwest's most beautiful and well-planned garden centers has been opened by Mr. and Mrs. Norman June, under the name of Junay's Garden Center, at 9520 Southeast Stark street., Portland, Ore. The Junes, who have owned and operated Shrubbery Plantings at Portland for the past few years, planned their new venture carefully, visiting various California areas to study similar establishments in that state.

Situated on a 2-acre site, Junay's boasts a large, sheltered sales area, which is completely black-topped except for the plant beds, which are curbed. A large parking area adjoins the sales area and the garden shop. In the garden shop customers find a complete line of garden supplies, plus many specialties. A novel feature of the garden shop is the house plant department, which extends along one side of the shop. Plants in season will be carried. The entire shop is beautifully lighted with egg-crate fluorescent lights.

Planning Facilities

Next to the shop quarters is Norman June's private office, which looks out on an enclosed miniature patio. Also facing the patio is the landscape consultation room, next to the office. In this room is a screen upon which customers can be shown pictures of the plants that are out of season. The quarters are also to be used for dealers' conferences and nursery committee meetings.

Another room is for the use of do-it-yourself landscape planning, in which the home gardener will be shown how to do many things himself, based upon plans which he can purchase from the firm. Alongside this room is another in which drafting work will be done by a landscape architect. Customers will be able to have lot plantings designed for a fee, purchase their basic planting material and add stock as time and funds permit.

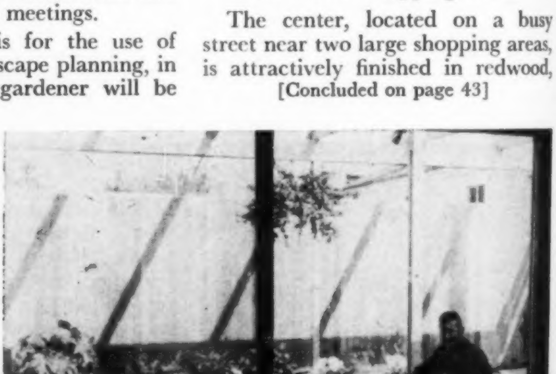
A large workroom in which shipping and other work can be done is part of the building. Push-it-yourself wheelbarrows are on hand for customers who desire to walk about the salesyard selecting their own plants.

Near Two Shopping Areas

The center, located on a busy street near two large shopping areas, is attractively finished in redwood,

[Concluded on page 43]

Interior view of Junay's Garden Center, with a pot plant department back of the foreground displays. Norman June is pictured among baskets of flowers sent by well-wishers.



View from Norman June's office of a small patio area, also visible from a landscape consulting room, at Junay's Garden Center which recently opened in the Portland, Ore. area.

A Busman's Holiday

Part IV. Observations in the West

By A. O. Rasmussen

Test Plots with Hedges at the U. S. D. A. Cheyenne Field Station, Cheyenne, Wyo.

As it was promised in our previous comments, here is a report on that "mysterious" trip. My wife and I drove around to Prof. Charles Drage's lovely home at Fort Collins and parked our car. We joined the Drages in their car and started on our journey.

We left Loveland and drove through the picturesque countryside, surrounded by mountains, to beautiful Estes park and then began our climb over the twisting, winding Trail Ridge road to the highest point, 12,180 feet above sea level. Deep ravines are filled with over 700 species of flowering plants. Lilies, penstemon, primroses, paint brushes, gentians and many other colorful plants added to the late summer beauty of the mountains.

The principal trees were alpine fir and Engelmann spruce at the higher elevations; dense stands of lodgepole pine were to be found in the middle elevations, and ponderosa pine appeared in heavy open stands in the lower elevations. Occasionally one would find the limber pine assuming unique and grotesque forms at the timberline. Along the streams, near the eastern edge of the park, are plentiful supplies of Colorado blue spruce. Also to be found at the lower elevations is Douglas fir. On extremely dry, less fertile soil at low elevation can be found the Rocky mountain juniper. Three species of poplars, of which the quaking aspen is most abundant, are found along the lower highway areas. The quaking aspen had just begun to show its golden fall color.

On the Trail

We had one interesting experience which we shall never forget. After we had reached the highest elevation, we decided to inspect some of the flowers and to collect a few of the colorful stones. Getting out of the car we started up a short incline and then realized something was wrong! We had extreme difficulty in breathing, due to the rarified atmosphere. Needless to say, we did not tarry long at that location, but started down on the other side of the Trail Ridge road.

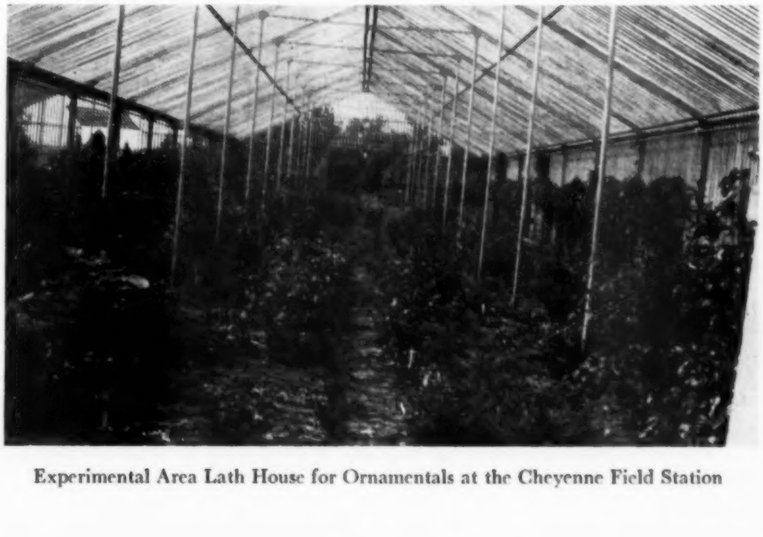
We did not see many animals until we were part way down the mountain and stopped to admire the shadows cast by the midafternoon sun. Almost immediately we saw several Rocky mountain camp robbers, a type of bluejay, and numerous friendly chipmunks and ground squirrels. The camp robbers and chipmunks were eagerly competing with one another for the crackers and tidbits we had to offer. Professor Drage told us that black bears, coyotes, bobcats and mountain cougars are to be found in this area, but are rarely seen. Larger animals like elk and mule deer, normally found, were not in evidence. There are many other types of birds; about 215 varieties have been recorded by ornithologists in this area alone.

We were now in the center of the Rocky Mountain National park, one of the most fascinating sections of the United States we had seen so far on our trip. This indeed was most mysterious in that the park itself contains the real record of the ice age. There are numerous trails for the adventurer, and the old Fall River road is a 1-way highway, up travel only, maintained for the mountain driver who seeks to renew his experiences in early-day motoring. We left that particular journey to the thrill seekers and younger generation. The lake-studded gorges, deep-forested canyons and lofty mountain peaks covered with glacial ice are long to be remembered. Just as a reminder to future travelers of this area, do not bring your dogs and cats along with you, as they are prohibited on all trails in the park.

There is a charge of $1 for entrance to Rocky Mountain National park. The permit granted for this fee is good for 15 days.

For the nurseryman interested in

[Continued on page 87]



Experimental Area Lath House for Ornamentals at the Cheyenne Field Station

Beginning in the Nursery Business

Chapter 2. Garden Centers

By John J. Pinney

One of the most remarkable developments in the nursery business in many generations is the growth of the garden center, which received its greatest impetus after World World II. The garden center evolved in response to a postwar need. Population was increasing by the millions, and hundreds of thousands of new homes were being built to house the new families. The owners of most of these new homes wanted to have their grounds landscaped, but because of limited budgets could not afford to have the work done all at one time.

On Saturday afternoons the homeowner would drive to the nursery, to buy as much nursery stock as he thought he could plant before dark, or as much as his budget would permit. In addition to trees, shrubs, vines and other plants, he needed many other things—tools, fertilizers, mulches, insecticides, fungicides and soil conditioners. Nurserymen gradually added these auxiliary items to their line of merchandise for the convenience of the customer. The garden shop that evolved by this process is comparable to the supermarket, which caters to all of the food needs of the customer.

Much of what was said in chapter I on cash-and-carry nurseries applies also to garden centers. A rereading of that chapter might prove helpful if you plan to establish a garden center. Some of these suggestions need elaboration, because the garden center is a much more complicated operation, requiring a greater investment.

Seek Area of Homeowners

The location of your garden center is important. If your only source of income is to be the cash-and-carry trade attracted by the garden center, you should locate on a well-traveled road in an area that has a dense population of homeowners. It takes a lot of traffic to build a profitable cash-and-carry trade. On the other hand, if you plan to operate your garden center in connection with a landscape business, you can be successful in smaller communities.

Communities with a high percentage of homeowners, without any established nurseries, are ideal locations for garden centers. There are many cities without nurseries or garden centers that would welcome such enterprises.

After you have decided on your community, choose your exact location with care. The going-home side of a through street or trafficway that serves a residential area is the ideal spot, provided the traffic is not too fast. However, garden centers located on side streets are often successful. Property located close to the population center on streets carrying heavy traffic often becomes so high-priced that the nurseryman cannot afford to use it for his business. Taxes might also be prohibitive. It is important to keep the initial investment as modest as possible, while meeting the requirements necessary for a garden center. It would be better to locate farther out on less expensive land and create traffic by advertising.

Check Zoning Law

Be sure that the land on which you plan to establish your business is zoned for that type of operation. Check with the county or city officials. Sometimes it is possible to have the land rezoned to suit the business, but you should be certain of this before you invest. Neighbors, even in residential areas, seldom object to a well-run nursery. Be sure that adequate water and sewer facilities are available.

A common mistake in establishing garden centers is to build them on an area that is too small. Perhaps the most important consideration is to provide ample and easily accessible parking space. A long narrow strip along the highway is better than a deeper strip with only a short frontage.

It should be easy for the customer to drive into your place of business and find a place to park. Try to arrange the parking in such a way that it is clear to the customer where and how he is to park. Use small, neat signs if necessary, to accomplish this. The parking area should be covered with gravel or crushed rock, to give it an all-weather surface.

Before you begin to build your garden center, make a detailed, scaled plan on paper. List all of the features you want to incorporate and relate them to each other. First of all, you will need a building for your salesroom and office. Most garden centers have lath or shade houses, and many have small greenhouses or conservatories for the display and sale of bedding, vegetable and house plants.

Plan Layout with Care

The arrangement of your garden center deserves careful study. As already stated, ample parking space is of prime importance. Lay it out parallel to the street or highway, to

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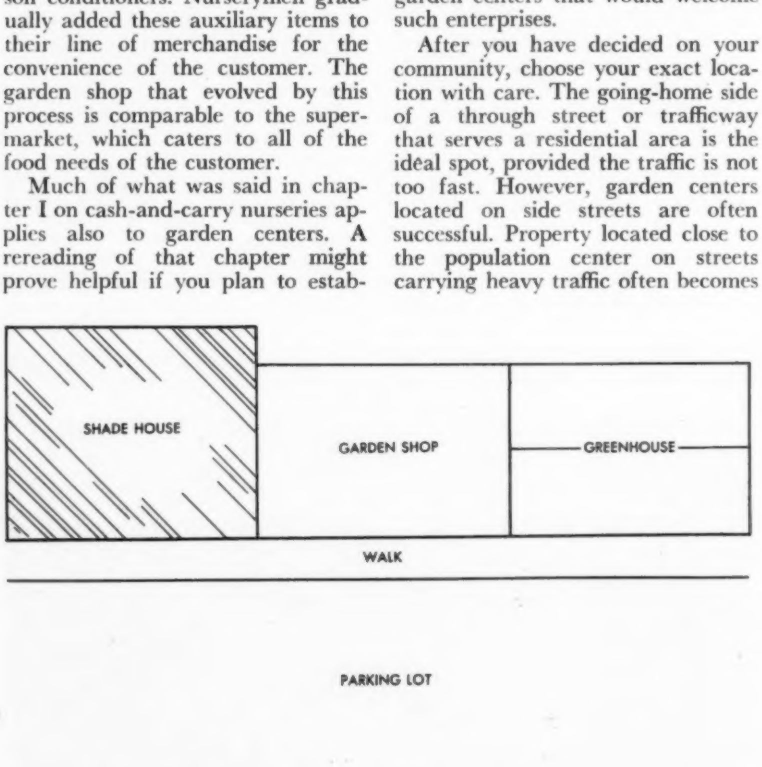

Placing buildings parallel to the long axis of the parking lot results in the most impressive appearance and gives the most convenient access to customer.

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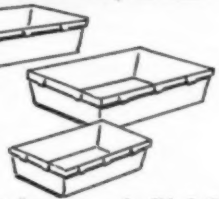

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It will pay you to be there and it will also pay you to make your hotel reservations NOW. Indications are that our 1958 convention will again be the "largest ever."

Of all months, January is the heaviest convention month in Chicago, and hotel men advise us that the situation will be tight and early reservations necessary. Write now for your reservations to the Hotel LaSalle, LaSalle and Madison Sts., Chicago 2, Ill., and be sure to mention the nurserymen's meetings.

The meeting dates in 1958 will be Monday, Tuesday and Wednesday, January 13-14-15. Meetings of a number of allied associations will be held during the week. The registration desk will be open Sunday, January 12.

ILLINOIS STATE NURSERYMEN'S ASSOCIATION,
ANNUAL CONVENTION
January 13-14-15, 1958

Closed meetings of a number of allied national nurserymen's associations will also be held over the week-end.

ILLINOIS STATE NURSERYMEN'S ASSOCIATION

QUALITY MERCHANDISE AT REASONABLE PRICES

VANDERBROOK NURSERIES, INC.
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Wholesale Nurserymen Since 1922

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Rhododendrons
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Perennials, Roses
All Nursery Items
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PRINCETON NURSERIES

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PRINCETON NURSERIES
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300 acres of choice Evergreens
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GARDNER'S NURSERIES, Inc.
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Christmas Tree Seedlings
and Transplants
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SHEPARD NURSERIES
Growers and Distributors of
ORNAMENTAL NURSERY STOCK
Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

COMING EVENTS

MEETING CALENDAR

November 21 to 23—Plant Propagators Society, annual meeting, Wade Park Manor, Cleveland, O.

December 2 and 3 — Minnesota State Nurserymen's Association, annual convention, Curtis hotel, Minneapolis, Minn.

December 3 to 5 — New York State Nurserymen's Association, short course, Cornell University, Ithaca, N. Y.

December 4 to 6 — Wisconsin Nurserymen's Association, annual convention, Hotel Schroeder, Milwaukee, Wis.

December 9 and 10—Nebraska Association of Nurserymen, winter meeting, Cornhusker hotel, Lincoln, Neb.

December 10 and 11—Arizona Nurserymen's Association, annual convention and short course, Student Union building, University of Arizona, Tucson.

January 2, 1958—Connecticut Nurserymen's Association, winter meeting, Waverly Inn, Cheshire, Conn.

January 5 to 7—North Carolina Nurserymen's Association, winter meeting, College Union building, North Carolina State College, Raleigh.

January 6 to 8—Eastern nurserymen's convention, Hotel Roosevelt, New York, N. Y.

January 6 to 8—Western Association of Nurserymen, annual convention, Hotel Muehlebach, Kansas City, Mo.

January 6 to 8 — Indiana Association of Nurserymen, winter meeting, Purdue University, Lafayette, Ind.

January 8 to 10—Indiana Arborists' Association, winter meeting, Purdue University, Lafayette, Ind.

January 9 and 10—Oklahoma State Nurserymen's Association, winter meeting, Mayo hotel, Tulsa, Okla.

January 9 to 11—Iowa Nurserymen's Association, winter meeting, Hotel Kirkwood, Des Moines, Ia.

January 12 — National Landscape Nurserymen's Association, winter meeting, Hotel La Salle, Chicago, Ill.

January 12 to 14—New York State Arborists' Association, annual meeting and arborists' school, Statler Hall, Cornell University, Ithaca, N. Y.

January 12 to 15—Canadian Association of Nurserymen, annual convention, Windsor hotel, Montreal, Quebec, Canada.

January 13 — National Mail Order Nurserymen's Association, Inc., winter meeting, Hotel La Salle, Chicago, Ill.

January 13 to 15—Illinois State Nurserymen's Association, winter convention, Hotel La Salle, Chicago, Ill.

January 14 — Massachusetts Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

January 20 to 22—Ohio State University's annual short course for arborists, landscape gardeners and nurserymen, Neil House, Columbus, O.

January 22 and 23 — Connecticut Nurserymen's Association, short course, University of Connecticut, Storrs.

January 22 to 24—Ohio Nurserymen's

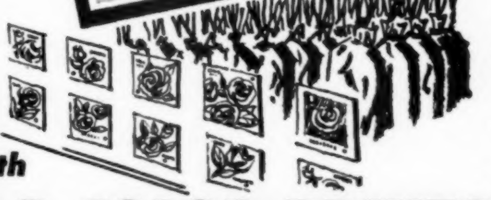
[Continued on page 20]

ADD COLOR

To Your Dormant Rose Display...

Hybrid Tea Rose
BURNABY
A. P. & D. Introduction
Blooms All Summer and Fall
Oregon Grown Roses
PETERSON & DERING
Finest Anywhere

One-half actual size.



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P&D COLOR PRINTS OF 138 VARIETIES

$13.50 *complete set, postpaid*

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- Weather-resistant finish lasts an entire season.
- Includes AARS Winners and the most wanted Popular and Patented Hybrid Teas, Babies, Climbers and Floribundas.

Only $13.50, postpaid. See complete list at right.

LIST OF ROSE PICTURES AVAILABLE

Nonpatented Hybrid Teas
- American Beauty
- Angel's Mateu
- Autumn
- Betty Uprichard
- Christopher Stone
- Condesa de Sastago
- Countess Vandal
- Crimson Glory
- Dainty Bess
- Duquesa de Penaranda
- Eclipse
- Edith Nellie Perkins
- Editor McFarland
- Ena Harkness
- Etoile de Hollande
- Frau Karl Druschki
- Girona
- Joanna Hill
- K. A. Viktoria
- Lulu
- Margaret McGredy
- Mme. Ed. Herriot
- Mme. Jules Bouche
- Mrs. Charles Bell
- Mrs. E. P. Thom
- Mrs. P. S. du Pont
- Mrs. Sam McGredy
- McGredy's Ivory
- McGredy's Scarlet
- McGredy's Yellow
- Nigger Boy
- Picture
- Pink Dawn
- Poinsettia
- President Hoover
- Radiance
- Red Radiance
- Shining Star
- Signora
- Sister Therese
- Snowbird
- Talisman
- Texas Centennial
- The Doctor
- Virgo
- Will Rogers

Nonpatented Floribundas
- Betty Prior
- Cecile Brunner
- Charlie McCarthy
- Else Poulsen
- Eutin
- Floradora
- Frensham
- Garnette
- Improved Lafayette
- Poulsen's Bedder
- Red Ripples
- Rose Elfe
- Royal Chinook
- Snowbank
- The Fairy

Nonpatented Climbers
- Cl. American Beauty
- Cl. Cecile Brunner
- Cl. City of New York
- Cl. Doubloons
- Cl. Etoile de Hollande
- Cl. Gold Rush
- Cl. New Blaze
- Cl. New Dawn
- Cl. Paul's Lemon Pillar
- Cl. President Hoover
- Cl. Snowbird
- Cl. Talisman
- Cl. White Dawn

Patented Hybrid Teas
- Blanche Mallerin
- Buccaneer
- Burnaby
- Capistrano
- Charlotte Armstrong
- Chrysler Imperial
- Confidence
- Dean Collins
- First Love
- Fort Knox
- Fort Vancouver
- Forty-Niner
- Fred Edmunds
- Fred Howard
- Golden Masterpiece
- Good News
- Grande Duchesse Charlotte
- Helen Traubel
- Love Song
- Lowell Thomas
- Mirandy
- Mme. Henri Guillot
- Mojave
- Montezuma
- New Yorker
- Nocturne
- Peace
- Pink Favorite
- Queen Elizabeth
- Roundelay
- Saturnia
- Sutters Gold
- Tallyho
- The Duke
- Tiffany
- White Knight

Patented Floribundas
- Amy
- Carrousel
- Circus
- Encore
- Fashion
- Fusilier
- Gold Cup
- Goldilocks
- Jiminy Cricket
- Ma Perkins
- Pinkie
- Pinocchio
- Red Pinocchio
- Spartan
- Vogue
- White Bouquet
- World's Fair

Patented Climbers
- Cl. Blossom Time
- Cl. Chrysler Imperial
- Cl. Coral Dawn
- Cl. Crimson Glory
- Cl. Dr. J. H. Nicolas
- Cl. Gladiator
- Cl. Golden Showers
- Cl. High Noon
- Cl. Parade
- Cl. Pinkie
- Cl. Spectacular

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CARTWRIGHT NURSERIE

COLLIERVILLE, TENN. Phone: ULysses 3-23

FALL, 1957

All nursery stock is sold F.O.B. Collierville, Tenn.; however, we will, if desired, arrange for delivery of stock to purchaser. We have access to a large fleet of refrigerator trucks, which can be hired on a mileage basis, so as to provide very economical and safe transportation. In any event stock travels at the risk of the purchaser.

Our stock is individually graded and tagged by a competent superintendent before it is dug and is graded and handled as carefully as possible to insure delivery to you of top-quality stock in good condition. Claims made within 10 days of receipt of stock will receive careful consideration. Our grades are at least up to American Association standards and are often better. Come to the nursery and see our stock in the fields.

All prices are subject to change without notice and all prices are based on truckload or carload quantities.

We have 850,000 B&B eve greens ready for market th season in our 1500-acre nu ery.

CONIFERS

All of our Junipers are many times sheared, none of them less than eight times, and many of our arborvitae are also sheared. This stock is of specimen quality and guaranteed to please.

Arborvitae, orientalis Baker	
24 to 30 ins.	$1.00
30 to 36 ins.	1.40
3 to 4 ft.	2.00
Arborvitae, orientalis Berckmans (Berckmans Dwarf Golden)	
12 to 15 ins.	1.00
15 to 18 ins.	1.25
18 to 24 ins.	1.60
24 to 30 ins.	2.00
Arborvitae, orientalis Blue Cone	
18 to 24 ins.	1.00
24 to 30 ins.	1.35
30 to 36 ins.	1.60
3 to 4 ft.	2.20
Arborvitae, orientalis Bonita	
15 to 18 ins.	1.25
18 to 24 ins.	1.60
24 to 30 ins.	2.00
30 to 36 ins.	2.50
3 to 4 ft.	3.00
Arborvitae, orientalis Excelsa	
30 to 36 ins.	1.50
3 to 4 ft.	2.00
4 to 5 ft.	3.00
5 to 6 ft.	4.00
Arborvitae, orientalis fruitlandi (Dark Green Berckmans)	
18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.25
Arborvitae, orientalis nowarki	
24 to 30 ins.	1.25
30 to 36 ins.	1.50
3 to 4 ft.	2.00
4 to 5 ft.	3.00
5 to 6 ft.	4.00
Arborvitae, American Dark Green	
24 to 30 ins.	1.50
30 to 36 ins.	2.25
3 to 4 ft.	3.00
4 to 5 ft.	3.75
Arborvitae, American Pyramidal	
24 to 30 ins.	1.50
30 to 36 ins.	2.25
3 to 4 ft.	3.00
4 to 5 ft.	3.75
Arborvitae, American compacta erecta globosa	
15 to 18 ins.	1.35
18 to 24 ins.	1.75
24 to 30 ins.	2.25
Arborvitae, American Globe (globosa)	
12 to 15 ins.	1.25
15 to 18 ins.	1.60
18 to 24 ins.	2.00
24 to 30 ins.	2.50
Cedrus atlantica	
2 to 3 ft.	1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50

Cedrus deodara	
2 to 3 ft.	$1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 8 ft.	7.50
Cypress, Blue Lawson	
15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50
30 to 36 ins.	1.75
3 to 4 ft.	2.50
Chamaecyparis Cyano Viridis	
18 to 24 ins.	1.25
24 to 30 ins.	1.75
30 to 36 ins.	2.00
Juniper, Andorra	
15 to 18 ins.	1.20
18 to 24 ins.	1.60
Juniper, Golden Canadian	
15 to 18 ins.	1.20
Juniper, hetzi glauca	
15 to 18 ins.	1.25
18 to 24 ins.	1.75
24 to 30 ins.	2.25
30 to 36 ins.	3.00
Juniper, hetzi glauca, staked pyramids	
2 to 3 ft.	2.50
3 to 4 ft.	3.50
Juniper, chinensis pfitzeriana Many times sheared, very heavy	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50
Juniper, pfitzeriana Blue	
15 to 18 ins.	1.50
18 to 24 ins.	2.00
Juniper, pfitzeriana compacta	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
30 to 36 ins.	3.50
Juniper, pfitzeriana Golden	
15 to 18 ins.	1.50
18 to 24 ins.	2.00
Juniper, pfitzeriana nana	
12 to 15 ins.	1.10
15 to 18 ins.	1.50
18 to 24 ins.	2.00
24 to 30 ins.	2.75
Juniper, chinensis procumbens	
12 to 15 ins.	1.00
15 to 18 ins.	1.50
18 to 24 ins.	2.00
Juniper, densa glauca	
2 to 3 ft.	1.75
3 to 4 ft.	2.50
Juniper, excelsa stricta	
15 to 18 ins.	1.20
18 to 24 ins.	1.50
24 to 30 ins.	2.00
30 to 36 ins.	2.75

Juniper, fastigiata	
24 to 30 ins.	
30 to 36 ins.	
3 to 4 ft.	
4 to 5 ft.	
Juniper, virginiana repandens	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	
Juniper, sabina	
12 to 15 ins.	
15 to 18 ins.	
18 to 24 ins.	
Juniper, sabina vonehron	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	
Juniper, sabina vonehron, staked pyramids	
24 to 30 ins.	
30 to 36 ins.	
3 to 4 ft.	
Juniper, sargenti	
15 to 18 ins.	
18 to 24 ins.	
Juniper, scopulorum kenyoni	
18 to 24 ins.	
24 to 30 ins.	
30 to 36 ins.	
Juniper, squamata meyeri	
15 to 18 ins.	
18 to 24 ins.	
Juniper, sylvestris	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
Juniper, virginalis	
15 to 18 ins.	
18 to 24 ins.	
24 to 30 ins.	
Juniper, virginiana burki, well-sheared	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
5 to 6 ft.	
Juniper, virginiana canaerti, well-sheared	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
5 to 6 ft.	
Juniper, virginiana Dundee, well-sheared	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
5 to 6 ft.	
Juniper, virginiana glauca	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
Pinus nigra (Austrian Pine)	
2 to 3 ft.	
3 to 4 ft.	
4 to 5 ft.	
Pinus mughus (Mugho Pine)	
12 to 15 ins.	
15 to 18 ins.	
Pinus strobus (White Pine)	
2 to 3 ft.	
3 to 4 ft.	

BROAD-LEAVED EVERGREENS

broad-leaved evergreens are well- n specimen stock. Most of them many s sheared, and the quality is guaranteed lease you.

s grandiflora

to 3 ft.	$1.00
to 4 ft.	1.25

s barlandi

to 18 ins.	1.50

s sempervirens, light grade

to 15 ins.	1.00
to 18 ins.	1.50

easter decora lactea

to 24 ins.	1.00
to 3 ft.	1.50

easter francheti

to 3 ft.	1.50

gus fruitlandi

to 3 ft.	1.00
to 4 ft.	1.50

gus simoni

to 3 ft.	1.00
to 4 ft.	1.50

ymus alatus compactus

to 30 ins.	1.50
to 36 ins.	2.00

ymus coloratus

to 24 ins.	1.00
to 3 ft.	1.25

ymus patens

to 24 ins.	1.00
to 30 ins.	1.25
to 36 ins.	1.50
to 4 ft.	2.00

cornuta burfordi
Larger size with berries, selected well-berried plants, 20% extra.

to 18 ins.	1.00
to 24 ins.	1.25
to 30 ins.	1.50
to 36 ins.	2.00
to 4 ft.	2.75
to 5 ft.	3.50

cornuta femina

to 24 ins.	1.50
to 30 ins.	2.00
to 36 ins.	2.50
to 4 ft.	3.25

cornuta rotunda, very dwarf type

to 15 ins.	1.25
to 18 ins.	1.75

crenata convexa (bullata), well-sheared, compact

to 15 ins.	1.00
to 18 ins.	1.25
to 24 ins.	1.75
to 30 ins.	2.25

crenata helleri, very dwarf, 1-gal. can

to 12 ins.	1.00

crenata latifolia

to 18 ins.	1.00

crenata Biloxi, selected type similar to convexa, but stronger grower

to 18 ins.	1.00
to 24 ins.	1.50
to 30 ins.	2.00

crenata repandens, dwarf, spreading, compact

to 18 ins.	1.25
to 24 ins.	1.75

crenata rotundifolia, well-sheared, very heavy

to 15 ins.	.80
to 18 ins.	1.00
to 24 ins.	1.50
to 30 ins.	2.00
to 36 ins.	2.50

Ilex glabra

15 to 18 ins.	$1.25

Ilex opaca, seedlings, sheared

2 to 3 ft.	1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00

Ilex opaca Croonenburg

2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00

Ilex East Palatka

2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
6 to 8 ft.	7.50
8 to 10 ft.	12.50
10 to 12 ft.	17.50

Ilex fosteri No. 2

2 to 3 ft.	2.00
3 to 4 ft.	3.00

Ilex opaca howardi

2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00

Ilex opaca Hume No. 2

2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00

Ilex opaca Reynolds

2 to 3 ft.	2.00
3 to 4 ft.	3.00

Ilex vomitoria, well-sheared, very good

18 to 24 ins.	1.00
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	2.50
4 to 5 ft.	3.00
5 to 6 ft.	4.00

Ilex vomitoria nana, very dwarf type

12 to 15 ins.	1.25
15 to 18 ins.	1.75

Ilex vomitoria Pride of Houston, heavily sheared

18 to 24 ins.	1.00
24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	2.50
4 to 5 ft.	3.00

Illicium anisatum

2 to 3 ft.	1.25

Jasmine, floridum

15 to 18 ins.	1.00
18 to 24 ins.	1.25
24 to 30 ins.	1.50

Ligustrum lucidum (Black Wax)

24 to 30 ins.	1.00
30 to 36 ins.	1.25

Ligustrum lucidum, Griffin type

24 to 30 ins.	1.00
30 to 36 ins.	1.25

Ligustrum lucidum (Suwannee River)

15 to 18 ins.	1.75
18 to 24 ins.	2.25
24 to 30 ins.	2.75

Laurocerasus caroliniana (Cherry Laurel), heavily sheared

2 to 3 ft.	1.25
3 to 4 ft.	1.50
4 to 5 ft.	2.50
5 to 6 ft.	3.50
6 to 8 ft.	5.00

Loropetalum Chinense (Texas Fringe)

18 to 24 ins.	1.25
24 to 30 ins.	1.50
30 to 36 ins.	2.00

Magnolia grandiflora

2 to 3 ft.	2.00
3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
6 to 8 ft.	7.50

Magnolia glauca

2 to 3 ft.	$1.50
3 to 4 ft.	2.50
4 to 5 ft.	3.50
5 to 6 ft.	5.00
6 to 8 ft.	7.50

Nandina domestica

15 to 18 ins.	.80
18 to 24 ins.	1.00
24 to 30 ins.	1.25
30 to 36 ins.	1.50
3 to 4 ft.	2.00

Osmanthus aquifolium

24 to 30 ins.	1.50
30 to 36 ins.	2.00

Osmanthus fortunei

18 to 24 ins.	1.25
24 to 30 ins.	1.50

Viburnum burkwoodi

18 to 24 ins.	1.50
24 to 30 ins.	1.75
30 to 36 ins.	2.00

DECIDUOUS TREES, B&B

Cornus florida (White Dogwood)

2 to 3 ft.	$1.00
3 to 4 ft.	1.50
4 to 5 ft.	2.00
5 to 6 ft.	2.75
6 to 8 ft.	4.00

Cornus florida rubra (Pink-Flowering Dogwood)

24 to 30 ins.	1.50
30 to 36 ins.	2.00
3 to 4 ft.	3.00

Magnolia soulangeana (Pink Magnolia)

2 to 3 ft.	2.00
3 to 4 ft.	2.75
4 to 5 ft.	3.50
5 to 6 ft.	4.50

Magnolia soulangeana nigra (Purple Magnolia)

2 to 3 ft.	1.50
3 to 4 ft.	2.25
4 to 5 ft.	3.00
5 to 6 ft.	4.00

Magnolia rustica rubra (Red Magnolia)

4 to 5 ft.	3.50
5 to 6 ft.	4.00

Magnolia stellata (Dwarf Star Magnolia)

2 to 3 ft.	3.00

GALLON-SIZE CONTAINER-GROWN STOCK

80c each

Arborvitae, Berckmans
Arborvitae, Blue Cone
Juniper, pfitzeriana
Juniper, pfitzeriana compacta
Juniper, excelsa stricta
Juniper, fastigiata (Improved Irish)
Juniper, hetzi glauca
Juniper, sabina
Magnolia grandiflora
Ilex burfordi
Ilex rotundifolia
Ilex convexa (bullata)
Ligustrum lucidum
Pyracantha formosana, red
Pyracantha lalandi, orange
Gardenia fortunei

PREMIUM QUALITY LAWN GRASS

Zoysia Matrella	$2.00 sq. yd.
Zoysia Meyer Z-52	2.00 sq. yd.
Zoysia Emerald	2.00 sq. yd.
Tiffine, Hybrid Bermuda (Tifton 127)	2.00 sq. yd.

ARTWRIGHT NURSERIES, COLLIERVILLE, TENN.

XUM

TOPS IN ROSES

Troubles I may have
On Thanksgiving Day—
Plans are afoot
Soon with me to do away.

In spite of my future—
Not bright you may say—

Rose-y is my outlook
On this holiday,
Since I've ordered my roses
Everything is just **Tops**
So, let come what may.

Make yours **Tops in Roses** and you can talk turkey to your customers next spring.

You won't ruffle our feathers if you write for current variety list.

WEEKS WHOLESALE ROSE GROWER

O. L. Weeks

926 W. Ely **Ontario, Calif.**

Association, winter convention, Neil House, Columbus, O.

January 23 and 24—New Jersey Association of Nurserymen, winter meeting, Chalfonte-Haddon Hall hotel, Atlantic City, N. J.

January 24—Western New York Nurserymen's Association, winter meeting, Sheraton hotel, Rochester, N. Y.

January 26 to 28—Virginia Nurserymen's Association, annual convention, Hotel John Marshall, Richmond, Va.

January 27 and 28—Idaho Association of Nurserymen, winter meeting and garden school, Basque Center hall, Boise, Ida.

January 29—Southern California nursery institute, University of California at Los Angeles.

January 29 to 31—Michigan Association of Nurserymen, winter convention, Fort Shelby hotel, Detroit, Mich.

January 30 and 31—Oregon Association of Nurserymen, annual convention, Multnomah hotel, Portland, Ore.

January 31—Northern California nursery institute, University of California at Berkeley.

February 2 to 4—Tennessee Nurserymen's Association, annual convention, Patten hotel, Chattanooga, Tenn.

February 4 and 5—Short course for nurserymen sponsored by Oregon State College, Corvallis.

February 4 to 6—New England Nurserymen's Association, annual meeting, Hotel Kenmore, Boston, Mass.

February 6 and 7 — West Virginia Nurserymen's Association, winter meeting, Daniel Boone hotel, Charleston, W. Va.

PROPAGATORS' MEETING

The Plant Propagators' Society will hold its seventh annual meeting at the Wade Park Manor hotel, Cleveland, O. Hugh Steavenson, of the Forrest Keeling Nursery, Elsberry, Mo., has announced the following program for the event, November 21 to 23, with an executive committee meeting the preceding evening, November 20:

NOVEMBER 21, MORNING

Registration, Main ballroom.

Address of welcome, by Past President Ed H. Scanlon, Ed H. Scanlon Associates, Olmsted Falls, O.

"The Propagation of Spruce."—A symposium on the genus picea. Panel moderator, R. P. Meahl, professor of ornamental horticulture, Pennsylvania State University.

Review of literature, by R. P. Meahl.

"Propagation of Spruce by Seed," by Thomas S. Pinney, Evergreen Nursery Co., Sturgeon Bay, Wis.

"Propagation of Spruce by Grafting," by John Ravenstein, Mentor, O.

"Propagation of Spruce by Cuttings," by R. Warren Oliver, central experimental farm, Ottawa, Ont., Canada.

Question period.

NOVEMBER 21, AFTERNOON

"Propagation of Herbaceous Perennials and Annuals." — A review of modern practices:

"Round-up of Newer Practices in Bedding Plant Production," by Phil Jones,

[Continued on page 24]

BETTER SHRUBS for BETTER LANDSCAPES

	Each 100 rate	Each 1000 rate
Almond, Pink		
2 to 3 ft.	$0.55	$0.50
18 to 24 ins.	.45	.40
Althaea, Anemone, pink		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Althaea, Banner, white		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Althaea, Lucy, red		
3 to 4 ft.	.65	..
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Althaea, Ardens, purple		
3 to 4 ft.	.65	..
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Barberry, Mentor		
2 to 2½ ft.	.65	.60
18 to 24 ins.	.55	.50
15 to 18 ins.	.45	.40
12 to 15 ins.	.35	.30
Barberry, Red-leaved		
18 to 24 ins.	.55	.50
15 to 18 ins.	.45	.40
12 to 15 ins.	.40	.35
9 to 12 ins.	.30	.25
Barberry, thunbergi		
2 to 2½ ft.	.55	.50
18 to 24 ins.	.45	.40
15 to 18 ins.	.35	.30
12 to 15 ins.	.30	.25
Buddleia, Charming		
No. 1	.35	..
Medium	.28	..
Buddleia, Dubonnet		
No. 1	.35	..
Medium	.28	..
Buddleia, Floralart		
No. 1	.35	..
Medium	.28	..
Buddleia, Red		
No. 1	.40	..
Medium	.30	..
Buddleia, White Cloud		
No. 1	.40	..
Medium	.30	..
Callicarpa dichotoma (Purple Beauty-Berry)		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Caryopteris incana, Blue Mist		
No. 1	.40	..
Medium	.30	..
Chaenomeles lagenaria (Flowering Quince)		
2 to 3 ft.	.45	.40
18 to 24 ins.	.35	.30
12 to 18 ins.	.30	.25
Chaenomeles, Apple Blossom		
2 to 3 ft.	.80	..
18 to 24 ins.	.60	..
12 to 18 ins.	.45	..
Chaenomeles, Glowing Ember (Trade-Mark)		
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
12 to 18 ins.	.30	..
Chaenomeles, Indian Chief		
2 to 3 ft.	.80	..
18 to 24 ins.	.60	..
12 to 18 ins.	.45	..
Chaenomeles, Pink Lady		
2 to 3 ft.	.80	..
18 to 24 ins.	.60	..
Chaenomeles, Texas Pink		
2 to 3 ft.	.75	..
18 to 24 ins.	.45	..
12 to 18 ins.	.35	..
Cornus paniculata		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Cornus sanguinea		
2 to 3 ft.	.55	..
18 to 24 ins.	.45	..
12 to 18 ins.	.30	..
Cornus stolonifera		
2 to 3 ft.	.55	..
18 to 24 ins.	.45	..
12 to 18 ins.	.30	..
Cotinus coggygria		
4 to 5 ft.	$1.50	..
3 to 4 ft.	1.10	..
2 to 3 ft.	.85	..
Cotoneaster acutifolia		
2 to 3 ft.	.55	..
18 to 24 ins.	.40	..
12 to 18 ins.	.30	..
Cydonia (See Chaenomeles)		
Deutzia gracilis		
15 to 18 ins.	.55	..
Deutzia gracilis rosea		
18 to 24 ins.	.60	..
15 to 18 ins.	.50	..
12 to 15 ins.	.40	..
Elaeagnus angustifolia		
4 to 5 ft.	.90	..
3 to 4 ft.	.70	..
2 to 3 ft.	.55	..
Euonymus alatus compactus		
18 to 24 ins.	1.10	..
12 to 18 ins.	.80	..
Exochorda racemosa (Pearl Bush)		
2 to 3 ft.	.60	..
18 to 24 ins.	.50	..
Forsythia fortunei		
3 to 4 ft.	.70	$0.65
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
Forsythia intermedia spectabilis		
3 to 4 ft.	.70	.65
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
Forsythia viridissima bronxensis		
18 to 24 ins.	.55	..
15 to 18 ins.	.45	..
12 to 15 ins.	.35	..
Forsythia, Lynwood Gold		
3 to 4 ft.	.70	..
2 to 3 ft.	.60	..
18 to 24 ins.	.50	..
Forsythia, Spring Glory		
4 to 5 ft.	.85	..
3 to 4 ft.	.70	.65
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
Honeysuckle, fragrantissima		
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
Honeysuckle, morrowi		
3 to 4 ft.	.60	..
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Honeysuckle, tatarica rosea		
3 to 4 ft.	.65	.60
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Honeysuckle, tatarica rubra		
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Honeysuckle, zabeli		
3 to 4 ft.	.65	.60
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Hydrangea arborescens grandiflora		
2 to 3 ft.	.60	..
18 to 24 ins.	.50	..
Hydrangea, Peegee		
2 to 3 ft.	.60	.55
18 to 24 ins.	.50	.45
Hydrangea, Nikko Blue		
No. 1	.85	..
Medium	.70	..
Kolkwitzia amabilis (Beauty Bush)		
3 to 4 ft.	.75	.70
2 to 3 ft.	.60	.55
18 to 24 ins.	.50	.45
Lilac, French		
2 to 3 ft.	.80	..
18 to 24 ins.	.60	..
12 to 18 ins.	.50	..
Charles Joly, double, reddish-purple		
Hugo de Vries, double reddish-purple		
Hugo Koster, single, lilac		
Ludwig Spaeth, single, deep purple		
Mme. Casimir Perier, double, white		
Mme. Florent Stepman, single, white		
Michel Buchner, double, lilac		
Waldeck-Rousseau, double, lilac-pink		
Lilac rothomagensis		
3 to 4 ft.	.70	.65
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	..
Lilac, Cut-leaved Chinese		
2 to 3 ft.	$0.65	..
18 to 24 ins.	.55	..
Lilac, vulgaris		
2 to 3 ft.	.55	$0.50
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
Philadelphus coronarius		
3 to 4 ft.	.65	..
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Philadelphus lemoinei, Avalanche		
2 to 3 ft.	.60	.55
18 to 24 ins.	.50	.45
Philadelphus lemoinei, Enchantment		
2 to 3 ft.	.60	.55
18 to 24 ins.	.50	.45
Philadelphus lemoinei, Mont Blanc		
2 to 3 ft.	.60	.55
18 to 24 ins.	.45	.45
12 to 18 ins.	.35	.30
Philadelphus virginalis		
2 to 3 ft.	.60	.55
18 to 24 ins.	.45	.45
12 to 18 ins.	.30	.25
Prunus tomentosa		
2 to 3 ft.	.60	.55
18 to 24 ins.	.50	.45
12 to 18 ins.	.35	.30
Physocarpus opulifolius nanus		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
Prunus, Hansen's Bush Cherry		
3 to 4 ft.	.55	.50
2 to 3 ft.	.45	.40
18 to 24 ins.	.25	..
Purple Fringe (See Cotinus)		
Quince (See Chaenomeles)		
Rhodotypos scandens (kerrioides)		
2 to 3 ft.	.65	..
18 to 24 ins.	.55	..
Rhus canadensis		
2 to 3 ft.	.60	..
18 to 24 ins.	.50	..
Spiraea arguta		
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
Spiraea billiardi		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	.35
12 to 18 ins.	.30	..
Spiraea froebeli		
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
9 to 12 ins.	.25	..
Spiraea, Korean		
2 to 3 ft.	.50	..
18 to 24 ins.	.40	..
12 to 18 ins.	.30	..
Spiraea prunifolia plena		
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
Spiraea thunbergi		
2 to 3 ft.	.55	.50
18 to 24 ins.	.45	.40
12 to 18 ins.	.35	.30
Tamarix africana		
3 to 4 ft.	.60	.55
2 to 3 ft.	.50	.45
Tamarix hispida		
3 to 4 ft.	.60	.55
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Tamarix, Summer Glow		
3 to 4 ft.	.60	.55
2 to 3 ft.	.50	.45
18 to 24 ins.	.40	.35
Weigela, Newport		
2 to 3 ft.	.65	..
18 to 24 ins.	.55	..
Weigela, Vanicek		
2 to 3 ft.	.65	..
18 to 24 ins.	.55	..
Willow, discolor		
3 to 4 ft.	.60	.50
2 to 3 ft.	.50	.45

Write for Complete Price List

THE WILLIS NURSERY CO. Ottawa, Kan.

A LETTER OF WHICH ANY SOUTHERN NURSERYMAN COULD BE PR

August 16, 1957

Wyman Nursery
R. R. 2
Caledonia, Mississippi

Dear Mr. Wyman:

I thought that you would be interested to know the samples you sent this spring were put to some rather severe tests and found to be excellent from many standpoints. For example, added to transplanting shock, temperatures were immediately dropped to 20 degrees below zero. These plants not only survived but are in the field and quite robust at this time. Losses were negligible.

Would you please, therefore, send the current price list so that we might order in quantity.

Sincerely,

Mr. Frank J. Novy

NUNN NURSERIES, INC.
5385 Mill Rd.
Brecksville, Ohio

I grew nursery stock for years in the north before I came south, so I know your climatic conditions. I used southern bare-root liners with success in Missouri and Michigan before I came to Mississippi. We can tell you how to handle our southern liners so that you will be successful, too.

We would like to thank all of our old customers for the past business they have given us, particularly our Canadian customers who like our southern liners well enough to reorder already again this fall.

Paul Wyman
Wyman Nursery

SEE OUR CURRENT OFFERINGS ON THE FACING PAGE

WYMAN NURSERY

No. 2, CALEDONIA, MISS. Phone: Columbus, Elmwood 6-5221

8 miles north of Columbus, Miss., 1 mile east of Highway 45.

FIELD-GROWN AND POTTED LINERS

POTTED LINERS IN 2¼-IN. ROSE POTS

	Each Per 1000 rate
Arborvitae	
Biota bakeri	
Biota Bonita, upright	
Biota Blue Cone	
6 to 8 ins.	15c
8 to 10 ins.	17½c
Thuja woodwardi	15c
Pfitzer Juniper	18c

POTTED BROAD-LEAVED EVERGREENS IN 2¼-IN. ROSE POTS

Ilex convexa (bullata)	
4 to 6 ins.	15c
6 to 8 ins.	17c
Ilex cornuta burfordi	
6 to 8 ins.	12c
Ilex crenata hetzi	18c
Ilex crenata rotundifolia	15c
Ilex opaca East Palatka	
6 to 8 ins.	12½c
8 to 10 ins.	15c
Magnolia grandiflora	
6 to 8 ins.	12½c
8 to 10 ins.	15c
Small-leaved Patens	
8 to 12 ins.	12½c
Jasminum floridum, 2-yr.	15c

FIELD-GROWN, BROAD-LEAVED EVERGREENS

Ilex cornuta, 2-yr.	
6 to 8 ins.	18c
Ilex crenata hetzi, 2-yr.	
6 to 8 ins.	18c
Ilex opaca East Palatka, 2-yr.	
8 to 12 ins.	18c

BED-GROWN, BROAD-LEAVED EVERGREENS

Euonymus patens, 2-yr.	
8 to 12 ins.	8c
12 to 15 ins.	12c
Euonymus japonicus, 2-yr.	
8 to 12 ins.	12c
12 to 15 ins.	15c
Berberis mentorensis, 2-yr.	
8 to 12 ins.	17c
Nandina, 2-yr.	
4 to 6 ins.	10c
6 to 8 ins.	12c
Crape Myrtle, watermelon-red, field-grown	
12 to 18 ins. ($80.00 per 1000)	8c
18 to 24 ins. ($100.00 per 1000)	10c
Mimosa, seedlings	Per 1000
12 to 18 ins.	$ 45.00
18 to 24 ins.	55.00
3 to 4 ft.	65.00
4 to 5 ft.	80.00
5 to 6 ft.	100.00

1-YR., FIELD-GROWN JUNIPER LINERS

	Each Per 1000 rate
Andorra	
6 to 8 ins.	8c
8 to 10 ins.	12c
10 to 12 ins.	16c
Ashford	
6 to 8 ins.	8c
8 to 10 ins.	10c
10 to 12 ins.	12c
Compact Pfitzer	
6 to 8 ins.	12c
8 to 10 ins.	18c
Golden Pfitzer	
6 to 8 ins.	14c
8 to 10 ins.	16c
10 to 12 ins.	18c
Greek	
6 to 8 ins.	10c
8 to 10 ins.	12c
10 to 12 ins.	15c
Hetz	
6 to 8 ins.	10c
8 to 10 ins.	12c
10 to 12 ins.	15c
Irish Fastigiata	
6 to 8 ins.	8c
8 to 10 ins.	10c
10 to 12 ins.	12c
Pfitzer	
6 to 8 ins.	14c
8 to 10 ins.	16c
10 to 12 ins.	18c
Savin	
6 to 8 ins.	8c
8 to 10 ins.	10c
Von Ehron	
6 to 8 ins.	10c
8 to 10 ins.	12c
10 to 12 ins.	15c

2-YR., FIELD-GROWN JUNIPER LINERS

Polish	
8 to 10 ins.	10c
10 to 12 ins.	12c
Swedish	
10 to 12 ins.	15c
12 to 15 ins.	18c
Savin	
8 to 10 ins.	10c
10 to 12 ins.	12½c

Due to our long growing season our first shipping date will be after November 1.

Terms: 2% discount for cash with order, free packing. Add 2c for each plant on orders of less than 250. C.O.D. orders must be accompanied by 25% of the purchase amount. A deposit of 25% will hold order for winter and spring delivery. Price F.O.B. nursery. We keep our varieties true to name as labeled and we will replace, upon proper proof, any stock that may prove otherwise, free of charge, or refund the amount paid for stock, but it is mutually agreed that we shall not be liable for any amount greater than the purchase price paid us. No claims will be considered unless made in writing within ten days after receipt of goods. All orders accepted subject to prior sales of stock or crop injury or loss from causes beyond our control.

Samples Will Be Mailed on Request at 15c Each

research and plant breeding department, George J. Ball, Inc., West Chicago, Ill.

"Present-Day Practice in Perennial Propagation and Culture," by Kenneth B. Fisher, Kingwood Nurseries, Mentor, O.

"New Concepts in Pot Culture of Perennials," by George Rose, Henry Field Seed & Nursery Co., Shenandoah, Ia.

Speakers — Exhibitor symposium—5-minute talks by exhibitors.

NOVEMBER 22, MORNING

"Propagation of Borderline Broadleafs." — A symposium on the propagation and culture of broad-leaved evergreens semihardy in the north. Panel chairman, Henry P. Orr, professor of ornamental horticulture, Alabama Polytechnic Institute, Auburn, Ala.

Review of the field, by Henry P. Orr.

"A Propagating Program with Hollies," by J. S. Wells, J. S. Wells Nursery, Red Bank, N. J.

"Camellias That Can Creep North and Their Propagation."

"Propagation of Other Broadleafs on the Edge of the North," by Donald Hillenmeyer, Lexington, Ky.

Question period on borderline broadleafs.

"Mulch Bed Method of Seedling Production." — Panel, including Roger E. Sherman, manager, soil conservation service plant center, Elsberry, Mo., and William Carl Sherman, Forrest Keeling Nursery, Elsberry, Mo.

NOVEMBER 22, AFTERNOON

"The Synthetic Aids to Propagation." — A review of hormones and other chemicals in cutting, seed and grafting propagation, by Dr. A. E. Hitchcock, Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y.

"Propagation and Culture of Container Stock." — Moderator, Frank Turner, Berryhill Nursery, Springfield, O.

"Outlook for Container Culture in the North," by Frank Turner.

"The California Concept in Container Production," by Walter Lee, Monrovia Nursery Co., Azusa, Calif.

"Container Culture in Maritime Zone 8; Its Significance to More Northern Latitudes," by A. J. Lancaster, Jr., Coleman Nursery Co., Portsmouth, Va.

Evening question box on propagation. Moderator, J. P. Mahlstede, Ames, Ia.

NOVEMBER 23, MORNING

"New Concepts in Propagating Structures." — Moderator, Dr. Kenneth W. Reisch, assistant professor of floriculture, Ohio State University, Columbus, O.

"The Use of Plastic Structures and Washed Air Cooling in Chrysanthemum Propagation," by Jake Miller, Yoder Bros., Ashtabula, O.

"The Use of Washed Air Cooling in Woody Plant Propagating Houses," by Tom Kyle, Jr., Tipp City, O.

"The Use of Polyethylene in Propagating Houses," by Zophar Warner, Warner Nursery, Willoughby, O.

"The Nearing Grafting Case," by David Leach, Brookville, Pa.

"Dwarfing and Hybridization Techniques for the Plant Propagator," by Dr. Karl Sax, Arnold Arboretum, Jamaica Plain, Mass.

NOVEMBER 23, AFTERNOON

"Propagation of Some Unusual Plants." — A panel discussion. Moderator, Roger Coggeshall, Arnold Arboretum, assisted by Richard Fenicchia, propagator, Rochester parks, Rochester, N. Y., and K. D. Holmes, Mount Arbor Nurseries, Shenandoah, Ia.

Report of field trials committee, by

Clarke's Nature-Ripened Northern California ROSES ARE READY!

No waiting—fill your requirements **now** from this list of topflight varieties:

No. 1 GRADE PATENT BUSH ROSES

300 **Baby Blaze**
500 **Blanche Mallerin**
800 **Bravo**
2000 **Buccaneer**
1200 **Charles Mallerin**
4000 **Charlotte Armstrong**
2000 **Chrysler Imperial**
1500 **Circus**
350 **Confidence**
900 **Fashion**
1500 **Forty-Niner**
700 **Fred Edmunds**
200 **Fred Howard**
4000 **Gold Cup***
1000 **Golden Scepter**
3000 **Goldilocks**
1000 **Grande Duchesse Charlotte**
800 **Grand'mere Jenny**
900 **Heart's Desire**
1500 **Helen Traubel**
300 **Henry Ford**
400 **Improved Cecile Brunner**
2000 **Jiminy Cricket**
1400 **Katherine T. Marshall**
1400 **La Jolla**
300 **Las Vegas**
2000 **Love Song**
200 **Lowell Thomas**
200 **Ma Perkins**
200 **Mark Sullivan**
1000 **Midnight**
1400 **Mirandy**
900 **Mission Bells**
1500 **Mojave**
300 **Montezuma**
2500 **New Yorker**
1600 **Nocturne**
5000 **Peace**
200 **Pink Bountiful**
500 **Pinkie**
1600 **Pinocchio**
900 **Pres. Eisenhower**
800 **Queen Elizabeth**
200 **Red Pinocchio**
400 **Roundelay**
900 **Show Girl**
1000 **Sleigh Bells**
300 **Sumatra**
250 **Summer Snow**
300 **Sun Valley**
1800 **Sutter's Gold**
400 **Suzon Lothe**
250 **Texan**
1800 **Tiffany**
1300 **Vogue**
2000 **White Bouquet**
8000 **White Knight***
400 **Yellow Pinocchio**

No. 1 GRADE PATENT CLIMBERS

100 **Aloha**
350 **Charlotte Armstrong**
400 **Chrysler Imperial**
300 **Crimson Glory**
350 **Forty-Niner**
200 **Golden Showers**
200 **Goldilocks**
1000 **High Noon**
300 **Mme. Henri Guillot**
200 **Nocturne**
300 **Peace**
300 **Picture**
900 **Spectacular**
400 **Sutter's Gold**
300 **Texas Centennial**
400 **Thor**

No. 1 GRADE NONPATENT BUSH ROSES

200 **Autumn**
250 **Better Times**
400 **Betty Prior**
2000 **Christopher Stone**
250 **Countess Vandal**
200 **Crimson Glory**
800 **Dainty Bess**
800 **Dick Koster**
800 **Duchess of Atholl**
3500 **Eclipse**
800 **Ena Harkness**
2800 **Etoile de Hollande**
3000 **Floradora**
200 **F. K. Druschki**
300 **Frensham**
300 **Garnette**
400 **Golden Dawn**
600 **Golden Gleam**
1800 **J. Otto Thilow**
500 **K. A. Victoria**
400 **Margo Koster**
900 **McGredy's Ivory**
400 **McGredy's Yellow**
500 **Mlle. C. Brunner**
1300 **Mme. Henri Guillot**
1500 **Mrs. E. P. Thom**
200 **Mrs. P. S. du Pont**
800 **Mrs. Sam McGredy**
600 **Neige Parfum**
200 **Pedrables**
2000 **Picture**
800 **Pres. H. Hoover**
400 **Red Talisman**
250 **Rosenelfe**
600 **Sister Therese**
400 **Snowbird**
600 **Southport**

No. 1 GRADE NONPATENT CLIMBERS

600 **Blaze**
200 **Etoile de Hollande**
200 **Hinrich Gaede**
200 **J. Otto Thilow**

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COMBINATION CARS AVAILABLE FOR MOST EASTERN SHIPMENTS. TRUCK DELIVERY AVAILABLE FOR NORTHWEST AND CALIFORNIA ORDERS.

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NURSERYMEN AND BREEDERS OF WOODY FLOWERING PLANTS

FRESH COLORADO SPRUCE CHRISTMAS DECORATIONS

WREATHS – Round Style

Ring Size	Over-all Size	Plain	Decorated
8-in.	12-in.	**$0.82**	**$1.00**
10-in.	16-in.	**.90**	**1.20**
12-in.	19-in.	**1.00**	**1.35**
16-in.	25-in.	**1.30**	**1.90**
20-in.	30-in.	**1.75**	**2.75**
24-in.	34-in.	**2.25**	**3.75**
30-in.	40-in.	**3.50**	**4.75**
36-in.	48-in.	**4.75**	**8.50**

Made of selected pieces of fresh **COLORADO SPRUCE.** These wreaths are tightly bound with wire on heavy ring; they are full, good shape and uniform in size. The decorated wreaths have natural pine cones, red ruscus and silver grasses.

COLORADO SPRUCE BOUGHS (Foliage)
Woods run ....per ton, **$120.00;** Per cwt., **$ 9.00**
SELECTED COLORADO SPRUCE SPRAYS.........per lb., **16c;** Per cwt., **15.00**
LONG NEEDLE PINE BOUGHS....................per lb., **12c;** Per cwt., **9.00**
PINE TIPS WITH CONES ATTACHED
2 to 4 cones on each tip..........................per lb., **16c;** Per cwt., **15.00**

SPRUCE ROPING (Garland)

Selected pieces tightly bound with wire, 25 yards to a coil.

No. 0—4 to 5-in. spread, approximate weight per coil 30 lbs., per yd. **$0.28**

No. 1—5 to 7-in. spread, approximate weight per coil 37 lbs., per yd. .... **.30**

No. 2—7 to 9-in. spread, approximate weight per coil 45 lbs., per yd. .... **.32**

ASSORTED GREENS

Case of approximately 50 lbs.

SPRUCE, PINE, FIR and **TIPS.** Packed in separate trays in a wax-lined box. All freshly cut and carefully selected.

Per 50-lb. case **$14.00**

FLOCKED BOUGHS

COLORADO SPRUCE BOUGHS—About 18 ins. long. Flocked in solid colors: White, green, blue, pink. Per doz. **$12.00**

SNO-FLOCKED WREATHS

The most beautiful Christmas wreaths ever made. These are extra-heavy, tightly bound. Made of the choicest fresh COLORADO SPRUCE. Decorated with natural Blue Spruce cones, red berries and sprayed with white flock to resemble a snow-covered wreath.

Packed one to a box.

16 ins. over-all, each ....**$2.50** 20 ins. over-all, each **$3.00**
25 ins. over-all, each....................**$4.50**

WRITE FOR COMPLETE ILLUSTRATED PRICE LIST!

All prices quoted are F.O.B. Denver, Colo.
TERMS: Net 30 days for proved accounts or 25% of amount in cash, balance C.O.D.

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P. O. Box 868 **AM-6-0883** **Denver, Colo.**

FALL, 1957, PRICE LIST

Seedlings

	100	1000
Acer rubrum, 2-yr., S., 6 to 12 ins.	$ 5.00	$ 45.00
Berberis thunbergi atropurpurea, 3-yr., S., 15 to 18 ins.	11.00	90.00
Crataegus phaenopyrum (cordata), 1-yr., S., 12 to 15 ins.	7.50	60.00
Fagus sylvatica, 1-yr., S., 6 to 8 ins.	10.00	85.00
Hamamelis virginiana, 2-yr., S., 10 to 15 ins.	6.00	50.00
Ilex decidua, 2-yr., S., 12 to 15 ins.	7.50	60.00
Ligustrum Dwarf Wintergreen, 1-yr., T.	20.00	....
Myrica pensylvanica, 1-yr., S., 3 to 6 ins.	5.00	40.00
Picea abies, transplanted understock	10.00	85.00
Picea glauca, 3-yr., S., 6 to 8 ins.	5.00	40.00
Picea pungens glauca, 2-yr., S., 4 to 6 ins.	5.00	40.00
Picea pungens glauca, 4-yr., S., 6 to 8 ins., hvy.	7.50	60.00
Pinus flexilis, 4-yr., S., 4 to 6 ins.	7.00	60.00
Pinus mughus (True Dwarf Tyrolean), 2-yr., S., 3 to 4 ins.	5.00	40.00
Pinus nigra, 2-yr., S., 4 to 8 ins.	4.50	40.00
Pinus sylvestris, 2-yr., S., 4 to 8 ins.	4.00	35.00
Pinus thunbergi, 2-yr., S., 6 to 8 ins.	4.00	35.00
Pseudotsuga taxifolia glauca, 2-yr., S., 6 to 8 ins.	6.50	50.00
Quercus coccinea, 1-yr., S., 6 to 8 ins.	6.00	50.00
Quercus palustris, 1-yr., S., 6 to 12 ins.	6.00	50.00
Sorbus aucuparia, 1-yr., S., 6 to 12 ins.	6.00	50.00
Sorbus aucuparia, 1-yr., S., 12 to 18 ins.	8.50	75.00
Taxus capitata, 2-yr., S., 3 to 6 ins.	10.00	85.00
Taxus capitata, 3-yr., S., 6 to 8 ins.	15.00	125.00
Thuja occidentalis, 2-yr., S., 4 to 6 ins.	5.00	40.00
Thuja orientalis, transplanted understock	8.50	75.00

Ericaceous Plants

	Per 10	Per 100
Azalea mucronulatum, 2-yr., T.	$3.00	$25.00
Leucothoe catesbaei, 2-yr., T.	3.00	25.00
Pieris floribunda, 2-yr., T.	3.00	25.00
Rhododendron catawbiense, 2-yr., T.	2.50	20.00
Rhododendron hybridum, red, 2-yr., T.	3.50	30.00

Bedded Stock 2-year Transplants

	Per 10	Per 100
Ilex convexa	$4.25	$35.00
Ilex crenata rotundifolia	4.25	35.00
Taxus cuspidata densiformis	4.50	40.00
Taxus cuspidata densiformis, 3-yr., T.	6.00	55.00
Taxus cuspidata F & F compacta	4.75	40.00
Taxus media browni	4.75	40.00
Taxus media cliftoni	4.75	40.00
Taxus media hatfieldi	4.75	40.00
Taxus media Vermeulen	4.75	40.00

1-Year Grafts from 2¼-in. Pots

	Per 10	Per 100
Cornus florida rubra Prosser	$8.50	$75.00
Fagus sylvatica pendula	7.50	65.00
Fagus sylvatica riversi	7.50	65.00
Juniperus scopulorum Blue Haven	7.50	65.00
Juniperus virginiana pyramidiformis hilli	7.50	65.00
Quercus robur fastigiata	8.50	75.00
Tsuga canadensis pendula	7.50	65.00

Well-Established Cuttings from 2¼-in. Pots

	Per 10	Per 100
Berberis julianae	$3.50	$25.00
Berberis thunbergi atropurpurea Crimson Pygmy	3.50	25.00
Buxus handsworthi	3.00	20.00
Chamaecyparis Cyano Viridis	3.00	20.00
Chamaecyparis filifera aurea	3.00	20.00
Chamaecyparis plumosa aurea	3.00	20.00
Cotoneaster adpressa praecox	3.00	20.00
Cotoneaster conspicua decidua	3.00	20.00
Cotoneaster horizontalis	3.00	20.00
Cotoneaster horizontalis perpusilla	3.00	20.00
Cotoneaster salicifolia	3.00	20.00
Enkianthus campanulatus	3.00	20.00
Euonymus carrierei	3.00	20.00
Euonymus japonicus	3.00	20.00
Euonymus patens	3.00	20.00
Euonymus vegetus	3.00	20.00
Ilex aquifolium Ciliata Major	5.00	40.00
Ilex crenata convexa	3.00	20.00
Ilex crenata helleri	3.00	20.00
Ilex crenata microphylla	3.00	20.00
Ilex crenata rotundifolia	3.00	20.00
Ilex cornuta burfordi	4.00	35.00
Ilex glabra	3.00	20.00
Ilex opaca (4 to 6 ins. in following named varieties)	5.00	45.00
Arden		
Boyce Thompson No. 3		
Cheerful		
Christmas Tide		
Della Bradley		
Farage		
Femina No. 16		
Hedge Holly		
*Hookstraw (Old Heavy Berry)		
Joyce		
Judge Brown		
Lake City		
Mae		
St. Mary		
Ilex opaca mascula	5.00	45.00
Ilex opaca mascula Brown No. 9	5.00	45.00

*Sold only in combination with other varieties. On orders for fall shipment, a 10% discount will be allowed for all hollies shipped during the fall season. Prices for spring will be net as quoted above.

	Per 10	Per 100
Juniperus depressa plumosa	3.00	20.00
Juniperus horizontalis Bar Harbor	3.00	20.00
Juniperus horizontalis wiltoni glauca	3.00	20.00
Juniperus pfitzeriana compacta	3.00	22.50
Juniperus pfitzeriana nana	3.00	22.50
Oxydendrum arboreum	3.00	22.50
Pieris japonica	3.00	20.00
Prunus laurocerasus schipkaensis	3.50	30.00
Pyracantha coccinea lalandi	3.00	20.00
Rhododendron wilsoni	4.50	40.00
Sarcococca hookeriana humilis	3.00	20.00
Taxus canadensis stricta	3.00	20.00
Taxus cuspidata aurea	3.00	20.00
Taxus cuspidata densiformis	3.00	20.00
Taxus cuspidata F & F compacta	3.00	20.00
Taxus cuspidata nana	3.00	20.00
Taxus media cliftoni	3.00	20.00
Taxus media Halloran	3.00	20.00
Taxus media hatfieldi	3.00	20.00
Taxus media henryi	3.00	20.00
Taxus media hicksi	3.00	20.00
Taxus media Moon's columnaris	3.00	20.00
Taxus media Vermeulen	3.00	20.00
Taxus media wardi	3.00	20.00
Thuja occidentalis globosa Howe Type	3.00	20.00
Thuja occidentalis globosa novum	3.00	20.00
Thuja occidentalis nigra	3.00	20.00
Viburnum fragrans	3.00	20.00

HESS' NURSERIES

BOX 788 **MOUNTAIN VIEW, N. J.**

Dr. John Mahlstede, department of horticulture, Iowa State College, Ames, Ia.

Annual banquet, address, "Sleuthing for Specimens from Moscow to the Mediterranean." A picture report on the 1957 European tour by Ed D. Scanlon.

WISCONSIN MEET DETAILS

While the sessions scheduled for the second and third day of the Wisconsin Nurserymen's Association convention, to be held December 4 to 6 at the Hotel Schroeder, Milwaukee, Wis., are open only to association members, the short course that constitutes the program for the first day of the meeting will be open to all landscape men and nurserymen. After registration Wednesday morning, December 4, the program continues as follows:

WEDNESDAY, DECEMBER 4

"Grafting and Propagation."

"Care of Nursery Stock in the Garden Center."

Luncheon.

"The Future of Nurserymen and Landscape Nurserymen in the Landscape Field," a panel discussion by members of the Wisconsin Association for Landscape Architecture.

"Buying and Selling Merchandise for Garden Center Profits."

"This Business of Christmas Trees" (growing, marketing, flocking and merchandising).

THURSDAY, DECEMBER 5

Business session; election of officers.

"Wisconsin Nursery Law: A Review of Accomplishments and Proposed Improvements."

Luncheon period open.

"Dutch Elm Disease in Wisconsin and the Midwest: A Progress Report."

"Small Nursery Management," a round-table discussion.

Banquet.

FRIDAY, DECEMBER 6

W. N. A. board of directors' meeting.

SCHEDULE FOR NEW YORK

The education committee of the New York State Nurserymen's Association has planned its short course, to take place December 3 to 5 at Cornell University, Ithaca, N. Y., as a nurserymen's participation course, featuring round-table discussion. Tuesday evening, December 3, will be devoted to social events and a directors' meeting.

After registration Wednesday morning, a tour of the university campus is planned, including an exhibition of laborsaving agricultural equipment. Recent research in container growing, soil sterilization, weed control, fertilization and plant propagation will also be viewed, as well as the interesting landscape designs employed on the grounds of Cornell's ornithology laboratory.

A skit dramatizing customer relationships in landscape work will open the group discussions Wednesday afternoon. Further topics to be

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage. Over 200,000 for fall and spring delivery. All sizes from 8 ins. to 3 ft. All B&B.

AMOENA

8 ins.	$0.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

CORAL BELLS

6 ins.	.50
8 ins.	.75
10 ins.	1.00

HINODEGIRI

Our Hinos are very dark red.

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

ORANGE BEAUTY KURUME

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25

HINO-CRIMSON

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00

SNOW

6 ins.	$0.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25

LEDIFOLIA ALBA

6 ins.	.50
8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00

MAXWELL

8 ins.	.75
10 ins.	1.00

KAEMPFERI

Hardiest of all azaleas; well-budded, heavy.

OTHELLO, SALMON BEAUTY, FEDORA and **CARMEN** are all the same price.

8 ins.	.75
10 ins.	1.00
12 ins.	1.25
15 ins.	2.00
18 ins.	2.50
20 ins.	3.50
24 ins.	5.00
30 ins.	6.00
36 ins.	7.50

We also have limited quantities of the following varieties: **Louise Gable, Favorita, Beethoven, Johann Strauss, Rose Bud, Rose Greeley, Addy Wery** and **Polaris.**

Rooted cuttings of all varieties ready November 1. **$50.00** per 1000 except—**Rose Bud, Rose Greeley, Addy Wery, Louise Gable, $75.00** per 1000.

Buy northern-grown hardy azaleas. Our cuttings are made from plants that have been outdoors, unprotected for the past 15 years. Try them once and see the difference.

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20 MILLION TREES A YEAR!
SELECTED SEED
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MUSSER TREES GROW BEST—

because—GOOD HEREDITY and CAREFUL SELECTION of SEED—SCIENTIFIC CULTURE IN THE NURSERY assure HEAVY ROOTS and STURDY TOPS. Our TREMENDOUS VOLUME enables us to offer MORE FOR YOUR MONEY.

Bundle of 15 Musser seedlings, at right, compared with bundle of 15 ordinary seedlings.

As much difference in seed as in common and purebred cattle.

SEEDLINGS AND TRANSPLANTS AT LOW, QUANTITY PRICE

	Per 100	Per 1000
• **SPECIAL STRAIN SCOTCH PINE** Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed specimens, with rich color.		
2-yr., S., 4 to 8 ins.	$ 7.00	$ 35.00
4-yr., T., 8 to 14 ins.	20.00	100.00
• **MUGHO PINE**		
4-yr., S., 5 to 10 ins.	10.00	50.00
5-yr., T., 6 to 12 ins.	25.00	125.00
• **AUSTRIAN PINE**		
3-yr., S., 8 to 14 ins.	9.00	45.00
• **BLACK HILLS SPRUCE**		
3-yr., S., 4 to 8 ins.	7.00	35.00
4-yr., S., 5 to 10 ins.	10.00	50.00
4-yr., T., 5 to 10 ins.	17.00	85.00
• **NORWAY SPRUCE—Fast-growing** Special strain of our own collection.		
2-yr., S., 5 to 10 ins.	7.00	35.00
3-yr., S., 8 to 14 ins.	10.00	50.00
4-yr., T. (2-2), 10 to 14 ins. .... Excellent understock.	20.00	100.00
• **WHITE SPRUCE**		
3-yr., S., 8 to 12 ins.	9.00	45.00
• **COLORADO BLUE SPRUCE**		
3-yr., S., 8 to 12 ins.	12.00	60.00
5-yr., T., 8 to 12 ins.	35.00	175.00
• **DOUGLAS FIR**		
3-yr., S., 5 to 10 ins.	9.00	45.00
• **AMERICAN ARBORVITAE**		
3-yr., S., 6 to 10 ins.	8.00	40.00
• **CANADIAN HEMLOCK**		
3-yr., S., 8 to 14 ins.	20.00	100.00
• **RED BARBERRY**		
2-yr., S., 6 to 12 ins.	8.00	40.00
• **CONCOLOR FIR**		
2-yr., S., 3 to 6 ins.	10.00	50.00

	Per 100	Per 1000
• **JAPANESE YEW**		
Taxus cuspidata capitata—upright pyramidal		
2-yr., S., 3 to 6 ins.	$20.00	$175.00
Taxus cuspidata—spreading		
1-yr., T., 5 to 6 ins.	20.00	150.00
2-yr., T., 8 to 12 ins.	40.00	350.00
Taxus hicksi—upright		
1-yr., T., 5 to 6 ins.	25.00	175.00
2-yr., T., 8 to 12 ins.	40.00	300.00
Taxus browni		
1-yr., T., 4 to 6 ins.	25.00	175.00
2-yr., T., 6 to 8 ins.	40.00	350.00
Taxus cuspidata capitata—spreading From side cuttings.		
2-yr., T., 6 to 8 ins.	30.00	250.00
Taxus cuspidata capitata—upright From tip cuttings.		
1-yr., T., 6 to 8 ins.	25.00	175.00
Taxus intermedia—spreading		
1-yr., T., 4 to 6 ins.	25.00	175.00
2-yr., T., 6 to 8 ins.	40.00	350.00
• **JUNIPER HETZI GLAUCA**		
1-yr., T., 5 to 7 ins.	25.00	200.00
• **GLOBE ARBORVITAE**		
Woodwardi		
1-yr., T., 4 to 6 ins.	30.00	250.00
Hovey's		
1-yr., T., 4 to 6 ins.	30.00	250.00
• **PYRAMIDAL ARBORVITAE—Compacta**		
1-yr., T., 5 to 7 ins.	25.00	200.00
• **JAPANESE HOLLY**		
Ilex rotundifolia		
1-yr., T., 5 to 6 ins.	20.00	175.00
2-yr., T., 6 to 8 ins.	30.00	250.00
Ilex convexa		
1-yr., T., 4 to 6 ins.	20.00	175.00
• **WHITE DOGWOOD**		
Seedlgs., 12 to 18 ins.	10.00	50.00
Trans., 18 to 30 ins...	30.00	150.00

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SEND FOR COMPLETE CATALOG and WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

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INDIANA, PENNA.

considered in the discussion on "Nursery Landscape Opportunity in Home Beautification" are "Plants for Ranch-Style and Other Homes," "Containers Stretch the Season" and "The Foreman Keeps the Show on the Road." Later in the afternoon two additional discussions will be held, one on current plant propagation and production procedures, and the other on recent developments in soil fumigants, pesticides, herbicides and fertilizers. A fellowship hour and dinner will be held Wednesday evening after the state group's annual meeting.

A final round-table discussion to be held Thursday morning will cover several aspects of tie-in sales techniques. After Thursday's luncheon, which concludes the short course program, nurserymen will have an opportunity for consultation with Cornell staff members by appointment.

Members of the nurserymen's education committee, planners of the short course, are Chairman Al Synesael, Jackson & Perkins Co., Newark; Clarence Vanderbrook, Gardening Council, Newark; David Bulk, Bulk's Nurseries, Babylon; Merton Congdon, Congdon Wholesale Nursery, North Collins; Floyd Guernsey, Guernsey Bros. Nursery, Schoharie; John Kelley, Kelley Bros. Nursery, Dansville, and Howard Taylor, Rosedale Nurseries, Hawthorne.

PROGRAM FOR MINNESOTA

According to the program announced for the annual convention of the Minnesota State Nurserymen's Association, to be held December 2 and 3 at the Curtis hotel, Minneapolis, a panel discussion on winter damage will open the educational sessions Monday morning, December 2. L. Morgan Yost, architect, of Kenilworth, Ill., will then speak on the "Relationship of Architecture and Landscape Design," after which the report of the Minnesota state entomologist, Thor Aamodt, will be heard. The speaker at the luncheon will be Robert Hodgson, director of the University of Minnesota's southern experiment station, Waseca.

During the afternoon, members of the university staff, led by Dr. Leon Snyder, will discuss disease, insect and weed control, soil management and ornamental plant varieties. Committee appointments are to be made at a later afternoon business session, and a cocktail hour and banquet will be features of the evening program.

Tuesday morning, M. J. McMahon, advertising manager, Red Owl, Inc., will discuss "Sales Sense in Re-

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Flock Branches • Flock Trees • Flock Centerpieces

Flock a 3-ft. Christmas tree in 60 seconds—a 5-ft. tree in 5 minutes against a solid half hour. The "Floc-Flo" machine is completely self-contained. It needs no air compressor. Just plug it into the nearest 110-volt outlet, and flock—your present air supply must only match your adhesive gun requirements. **"Floc-Flo" is the only flocking machine on the market which will handle ALL grades and types of flock.**

$475.00 F.O.B. Chicago

Lifetime Guarantee

SPARKLE FLOC

New, modern-designed equipment allows us to offer these rich and lustrous flocks at new low prices.

WHITE—$30.00 per 50 lbs.
Imitates Jack Frost's artistry

CHILLY PINK—$32.00 per 50 lbs.
A new popular color

ICE BLUE—$32.00 per 50 lbs.
The NEW Christmas color

100% PURE VIRGIN RAYON

SNOW FLOCK

Fire Retardant—Glitter Added
WHITE—72c per lb.*
COLORS—82c per lb.*
*50 lbs. minimum quantity.
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Light Blue Turquoise Chartreuse
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FREE BOOKLET—By William Rieck: "What's New in Flocking." A must for anyone who is now flocking or plans to go into this profitable field.

Our terms are 25% with order. These terms are no reflection on your credit rating. By these terms we can pass on to you the lowest prices on the market—save you money.
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"Sno-Stick" Adhesive for Two-gun Flocking (Non-toxic)

5 Gals.—$2.50 Per Gal.
50 Gals.—$1.50 Per Gal.

A CHRISTMAS TREE STAND THAT REALLY HOLDS the TREE

It's Strong!
It's Durable!

New • Simple "Wire Wonder" Economical

Trade Tested—The MOST IMPROVED DESIGN on the Market Today!

- **Mounts any size tree in less than 2 minutes**
- **Ideal for dealer displaying trees**
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- **Ideal for advertising specials**

SELL IT WITH TREE
SELL IT ALONE

RETAILS for only $1.00—For 26-in. stand to hold tree up to 7 feet. Packed 36 to a carton....**$7.20** per doz.
Freight prepaid anywhere in the U. S. on 72 or more. Special price by 100's.

Also design for Tree Table — 15 seconds to mount. Packed 36 stands to carton ....**$5.40** per doz.
Freight prepaid anywhere in the U. S. on 72 or more.

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Again we offer them from the finest rose-growing areas:

CALIFORNIA — ARIZONA — OREGON

All the leading patented and standard varieties.

Price Schedule of Standard Varieties

Grade	Each 10 to 240	Each 250 to 990	Each 1000 to 2490	Each 2500 to 5000	Each Over 5000
No. 1	$0.60	$0.58	$0.56	$0.55	$0.54
No. 1½ ..	.50	.48	.46	.45	.44

NO CHARGE FOR PACKING—F.O.B. MOORESTOWN, N. J.

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NORWAY MAPLES

Straight Trunks

With Good Heads

1800 2 to 2½-in. cal.

600 2½ to 3-in. cal.

275 3 to 3½-in. cal.

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Bustleton Pike Feasterville, Pa.

MIST-O-GATION, INC.
NOW OFFERS

Outdoor Rooted Cuttings

1 and 2-yr. transplants to the trade. List upon request.

Propagation surplus, due to more efficient propagation methods, principally the use of fog. See our equipment advertisement in this issue.

MIST-O-GATION, INC.

Middletown, Del.

PINE, SPRUCE AND FIR

Seedlings and transplants for spring.

List available in December.

SAM DIBLE NURSERY

SHELOCTA, PA.

We never talk about the other fellow's low prices; he knows what his merchandise is worth. We grow good evergreen liners. Ask for our wholesale list.

STEDMAN NURSERIES, INC.

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COLLECTED STOCK

Pin Oak, 1½ to 3-in. cal.
Red Maple, 1½ to 3-in. cal.
Gray Birch, 3 or more stems, from 8 ft. and up.

BARRY'S EVERGREEN NURSERY

White Haven, Pa.

tailing," after which Jack Siebenthaler, the Siebenthaler Co., Dayton, O., will present "Some Practical Ideas on Garden Store Merchandising." At the final business meeting, to be held after the American Association of Nurserymen luncheon, committee reports will be given and 1958 officers and delegates will be elected.

NORTH CAROLINA DATE

Members of the North Carolina Nurserymen's Association will meet January 5 to 7 at Raleigh, N. C., to attend sessions of their annual winter meeting. Headquarters for the event will be the College Union building on the campus of North Carolina State College.

ARIZONA PROGRAM

December 10 and 11, the Arizona Association of Nurserymen will hold its seventh annual convention and short course in the Student Union building, University of Arizona, Tucson. Staff members of the university are cooperating in the program, which has been announced as follows:

DECEMBER 10, MORNING

General meeting, Ralph McPheeters, state president, chairman.

Welcome, by Dr. Richard A. Harvill, president, University of Arizona.

"Time and Motion Studies in the Nursery Industry," by D. I. Davidson, Hughes Aircraft Co.

"Soil Compaction," by Dr. Wallace H. Fuller, head, department of agricultural chemistry and soils, University of Arizona.

"Gibberellic Acid and Chelate Research," by J. Richard Kuykendall, department of horticulture, University of Arizona.

"Nematodes," by John H. O'Bannon, nematologist, University of Arizona—U.S.D.A. cotton research center, Tempe, Ariz.

Luncheon meeting, Senior ballroom, with Dr. Harold E. Myers, chairman. Address: "Arizona Business Outlook for 1958," by Dr. Shaw Livermore, dean, college of business and public administration, University of Arizona.

DECEMBER 10, AFTERNOON

General meeting. James Driscoll, state vice-president, Phoenix chapter, chairman.

"Nursery Merchandising," by W. R. Harrison, Pacific Coast Nurseryman.

"What's Ahead in University of Arizona Horticulture," by Dr. Leland Burkhart, head, department of horticulture, University of Arizona.

Business meeting of the Arizona Association of Nurserymen.

Cocktail party, at Tucson Inn, courtesy of the Capital Feed & Seed Co., Phoenix.

Dinner and installation of officers.

DECEMBER 11, MORNING

"Insects: How They Eat, Walk and Fly," by Dr. George Butler.

"Outstanding Tucson Patios," a Kodachrome slide lecture in the Junior ballroom, showing work of Guy S. Greene,

IMPORTED HOLLAND BULBS

Exhibition Quality — Prompt Service — True to Name — Up to Size

ALL PRICES PER 1000
TULIPS and CROCUS—100 of a variety and size at 1000 rate.
HYACINTHS and NARCISSI—50 of a variety and size at 1000 rate.
IRIS and MISCELLANEOUS BULBS—250 of a variety and size at 1000 rate.
Orders should be in multiples of 50, 100 or 250 as shown above.

DARWIN TULIPS

	12 cm. and up	11 to 12 cm.
Afterglow. Orange-rose	$45.00	$40.00
Allbright. Bright red	50.00	40.00
American Flag. Red and White.	55.00	50.00
Aristocrat. Dark violet-rose	50.00	45.00
Bartigon Max. Clear Crimson	50.00	45.00
Bleu Aimable. Heliotrope-blue	45.00	40.00
Campfire. Blood-red	50.00	40.00
Charles Needham. Vermilion	55.00	50.00
City of Haarlem. Deep red	60.00	55.00
Clara Butt. Salmon-pink	45.00	40.00
Cordell Hull. Red, streaked white	50.00	45.00
Demeter. Reddish-purple	50.00	45.00
Duke of Wellington. White	55.00	45.00
Farncombe Sanders. Scarlet	45.00	40.00
Giant. Purple-violet	50.00	40.00
Glacier. Ivory-white	50.00	45.00
Golden Age. Deep yellow	50.00	45.00
Golden Measure. Golden-yellow.	50.00	45.00
Insurpassable. Lilac	50.00	45.00
King George V. Bright red	45.00	40.00
La Tulipe Noire. Purple-black	50.00	45.00
Mamasa. Buttercup-yellow	50.00	45.00
Margeaux. Wine-red	50.00	45.00
Montgomery. White, edged red	50.00	45.00
Mrs. Grullemans. Creamy-white.	50.00	45.00
Niphetos. Sulphur-yellow	50.00	45.00
Palembang. Soft yellow	45.00	40.00
Paul Richter. Geranium-red	55.00	45.00
Philip Snowden. Carmine-rose	45.00	40.00
Pride of Haarlem. Cerise	45.00	40.00
Pride of Zwanenburg. Salmon	50.00	45.00
Princess Elizabeth. Salmon	45.00	40.00
Prunus. Salmon-pink	45.00	40.00
Purple Copland. Purple	45.00	40.00
Queen of Night. Purplish-black.	45.00	40.00
Red Pitt. Dark blood-red	45.00	40.00
Scarlet Leader. Blood-red	50.00	45.00
Scarlet Sensation. Scarlet-red	45.00	40.00
Scotch Lassie. Deep lavender	45.00	40.00
Sunkist. Deep golden-yellow	45.00	40.00
The Bishop. Violet-blue	50.00	45.00
White Giant. Pure white	50.00	45.00
William Copland. Lilac	40.00	35.00
William Pitt. Cerise-red	45.00	40.00
Yellow Giant. Golden-yelow	45.00	40.00
Zwanenburg. Pure white	50.00	45.00
Rainbow Darwin Mixture	40.00	35.00

BREEDER TULIPS

Dillenberg. Apricot-orange	45.00	40.00
George Grappe. Deep lavender	50.00	42.00
Louis XIV. Purple, flshd. bronze	60.00	50.00
Tantalus. Yellow shaded purple.	55.00	50.00
Velvet King. Purple-violet	50.00	42.00
Rainbow Breeder Mixture	50.00	42.00

PARROT TULIPS

	12 cm. and up	11 to 12 cm.
Black Parrot. Glossy black	$45.00	$40.00
Blue Parrot. Heliotrope-blue	50.00	45.00
Discovery. Violet, edged white	50.00	45.00
Fantasy. Soft rose, green markings	50.00	45.00
Faraday. White, flushed rose	60.00	50.00
Firebird. Intense fire-red	50.00	45.00
Gadelan. Violet-mauve	70.00	60.00
Orange Favorite. Orange	50.00	45.00
Pierson Parrot. Deep blood-red	50.00	45.00
Red Champion. Bright crimson.	65.00	55.00
Sunshine. Clear golden-yellow	55.00	50.00
Therese. Soft rose-red	55.00	50.00
Violet Queen. Pearl-blue	60.00	55.00
Rainbow Parrot Mixture	50.00	45.00

COTTAGE TULIPS

Advance. Scarlet, shaded cerise	50.00	42.00
Albino. Large, pure white	50.00	42.00
Carrara. Pure white	50.00	45.00
Golden Harvest. Deep yellow	40.00	35.00
G. W. Leak. Geranium lake red.	50.00	45.00
Inglescombe Yellow. Canary	40.00	35.00
Marshall Haig. Bright scarlet	50.00	45.00
Mrs. J. T. Scheepers. Pure yellow	50.00	45.00
Northern Queen. White, pink	50.00	42.00
Ossi Oswalda. White and rose	50.00	42.00
Princess Marg. Rose. Red, yellow	40.00	35.00
Rosy Wings. Apricot-pink	50.00	42.00
White City (Mt. Erebus). White.	55.00	50.00
Rainbow Cottage Mixture	42.00	38.00

SPECIAL TULIP MIXTURES

Domestic Stock	Per 100	Per 1000
6 to 7 centimeters	...	$ 6.00
7 to 8 centimeters	$1.50	8.00
8 to 9 centimeters	1.75	12.00
9 to 10 centimeters	2.00	15.00
10 to 11 centimeters	2.50	20.00
11 to 12 centimeters	3.00	25.00
12 centimeters up	4.00	35.00

NATURALIZING NARCISSUS

Blooming size, domestic stock, 10 to 12 cm., $1.50 per 100; $10.00 per 1000.

SINGLE EARLY TULIPS

	12 cm. and up	11 to 12 cm.
Couleur Cardinal. Deep red	$65.00	$55.00
Crown Imperial. Red and yellow	60.00	50.00
Gen. De Wet. Orange, scented	55.00	50.00
Ibis. Deep carmine-red	50.00	45.00
Keizerskroon. Red, yellow edge	50.00	45.00
Olympiade. Deep golden-yellow.	50.00	45.00
Prince Carnaval. Red and yellow	55.00	50.00
Prince of Austria. Orange-red	50.00	45.00
Ursa Minor. Golden-yellow	45.00	40.00
White Hawk. Large pure white.	55.00	50.00
Rainbow Single Early Mixture	50.00	40.00

DOUBLE EARLY TULIPS

Bonanza. Red, edged yellow	45.00	40.00
Electra. Deep carmine	60.00	50.00
Marechal Niel. Yellow-orange	60.00	50.00
Mr. Van der Hoeff. Pure yellow.	60.00	50.00
Murillo Max. White, flushed pink	60.00	50.00
Orange Nassau. Orange-scarlet	60.00	50.00
Peachblossom. Deep rose	60.00	50.00
Schoonoord. Pure white	60.00	50.00
Rainbow Double Early Mixture	55.00	45.00

DOUBLE LATE TULIPS

Coxa. Orange-red, edged white	50.00	42.00
Eros. Distinct old rose	50.00	42.00
Mount Tacoma. Pure white	50.00	42.00
Nizza. Yellow, striped red	50.00	42.00
Palette. Lilac-red, edged yellow.	45.00	40.00
Rocket. Cherry-red. Eros sport	45.00	40.00
Symphonia. Huge cherry-red	45.00	40.00
Uncle Tom. Deep maroon-red	50.00	42.00
Rainbow Double Late Mixture	45.00	40.00

BOTANICAL TULIPS

	Top Size
Clusiana. Crimson and white	$ 65.00
Eichleri. Large crimson-scarlet	40.00
Kaufmanniana. White, tinted red	50.00
Marjoletti. Yellow, flamed red	45.00
Orphanidea. Bronze, green center	100.00
Peacock Tulips. Rainbow Mixture	80.00
Praestans, Type. Carmine-scarlet. Tall	75.00
Praestans, Fusilier. Scarlet. Dwarf	150.00
Praestans, Tubergen's Var. Scarlet-orange. Dwarf, and very early	70.00

FOSTERIANA TYPE

	12 cm. and up	11 to 12 cm.	10 to 11 cm.
F. Princeps. Orange-red.	$ 50.00	$45.00	$40.00
F. Red Emperor. Scarlet.	50.00	45.00	40.00
F. Purissima. Pure white	200.00	....	....
F. Grand Prix. Yellow	200.00	....	....

CROCUS

Prices per 1000

	7 to 8 cm.	8 to 9 cm.	9 to 10 cm.	10 cm. and up
Blue, White, or Striped	$10.00	$15.00	$17.00	$20.00
Yellow	15.00	20.00	25.00	30.00
Mixed Colors	11.00	16.00	18.00	22.00

WEDGWOOD IRIS—West Coast Grown

Healthy, well-graded.

	8 to 9 cm.	8½ to 9 cm.	9 to 10 cm.	10 to 11 cm.
Per 100	$ 2.00	$ 2.50	$ 3.50	$ 5.50
Per 1000	15.00	17.50	30.00	47.50

NARCISSI

Prices per 1000.
50 at 1000 rate.

	D.N. No. 1	D.N. No. 2	D.N. No. 3
Beersheba. Fine pure white	$120.00	$90.00	$55.00
Carlton. Clear yellow, frilled cup	85.00	65.00	45.00
Cheerfulness. Double White	70.00	55.00	45.00
Cragford. White, orange eye	85.00	65.00	50.00
Daisy Schneffer. White, yellow crown	90.00	75.00	60.00
Duke of Windsor. White, apricot cup	90.00	75.00	60.00
Flower Carpet. Improved King Alfred	90.00	75.00	55.00
Fortune. Yellow, orange-red cup	85.00	75.00	60.00
Franciscus Drake. White, yellow cup	90.00	75.00	60.00
Geranium. White, orange-red cup	75.00	60.00	45.00
Golden Harvest. Large golden-yellow	110.00	90.00	65.00
Imperator. Large creamy-white	90.00	75.00	60.00
Inglescombe. Double lemon-yellow	85.00	70.00	55.00
King Alfred. Clear golden-yellow	90.00	75.00	60.00
Laurens Koster. White, orange cup	70.00	55.00	40.00
Magnificence. Golden-yellow trumpet	85.00	70.00	55.00
Mount Hood. Large pure white trumpet	90.00	75.00	60.00
Mrs. E. H. Krelage. Creamy trumpet	85.00	70.00	50.00
Mrs. R. O. Backhouse. White, pink cup	90.00	70.00	45.00
Rembrandt. Large golden-yellow	90.00	75.00	55.00
Scarlet Elegance. Yellow, red cup	85.00	70.00	50.00
Spring Glory. White, yellow trumpet	85.00	70.00	55.00
Texas. Double yellow, red center	80.00	65.00	50.00
Twink. Double yellow, orange center	80.00	65.00	50.00
Mixture of Trumpet. Varieties Only	85.00	65.00	50.00
Mixture of All Types	85.00	65.00	50.00

HYACINTHS

Bismarck. Sky-blue, early.
Carnegie. Fine pure white.
City of Haarlem. Yellow.
Delft's Blue. Porcelain blue.
Dr. Streseman. Clear blue.
Grand Maitre. Lavender-blue.
Jan Bos. Bright red. Early.
King of Blues. Dark blue.
Lady Derby. Light pink.
La Victoire. Bright carmine.
L'Innocence.
Marconi. Deep rosy-pink.
Ostara. Deep blue. Early.
Pink Pearl. Bright rose.
Queen of the Pinks. Rose.
Queen of the Whites. White.

50 at 1000 rate.	Per 1000
19 cm. up	$150.00
18 to 19 cm.	130.00
17 to 18 cm.	110.00
16 to 17 cm.	80.00
15 to 16 cm.	70.00
14 to 15 cm.	60.00

{NOTE: Prices above apply on orders for assorted varieties.}

DUTCH IRIS—HOLLAND-GROWN

Prices per 1000.
250 at the 1000 rate.

	8 cm. and up	7 to 8 cm.	6 to 7 cm.
Golden Emperor. Deep yellow	$30.00	$20.00	$10.00
Golden Harvest. Golden-yellow	30.00	20.00	10.00
H. G. Van Vliet. Early large blue	25.00	18.00	10.00
Imperator. Late dark blue	25.00	18.00	10.00
White Excelsior. Snow-white	25.00	20.00	15.00
White Superior. Tall pure white	30.00	20.00	15.00
Yellow Queen. Golden-yellow	....	25.00	20.00
Rainbow Mixture—All colors	25.00	18.00	10.00

MISCELLANEOUS BULBS

	Top Size Per 100	Per 1000
Chionodoxa Luciliae. Blue, white, or pink	$ 1.50	$10.00
Eranthis Hyemalis (Winter Aconite). Golden-yellow	3.00	25.00
Fritillaria Imperialis (Cown-Imperial). Mixed	75.00	....
Fritillaria Meleagris (Guinea Hen Flower). Mixed	2.00	15.00
Galanthus. Single or Double Type. White	3.50	30.00
Iris Cajanus. Dark yellow Spanish Iris	3.00	25.00
Iris Reticulata. Violet-blue, sweet-scented	3.00	25.00
Muscari, Armeniacum, Early Giant, or Heavenly Blue	2.00	15.00
Scilla Campanulata. White, blue, pink, or mixed	2.50	20.00
Scilla Sibirica (Siberian Squill). Sky-blue	2.50	20.00

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Address ....

John Harlow, James Hostetter and Joe Folkner.

Panel discussion on general subjects.

Luncheon, with the newly elected president as chairman.

"Garden Lighting," by Eric Johnson, Sunset Magazine, and Guy S. Greene.

Conducted tour of the University of Arizona art galleries. The California Redwood Association's traveling exhibit of landscape architecture will be on display at the gallery.

WESTERN NEW YORK DATE

William R. Boocock, Four Winds Nursery, Buffalo, N. Y., secretary-treasurer of the Western New York Nurserymen's Association, announces that the organization has set January 24 as the date for its winter meeting. Sessions will be held at the Sheraton hotel, Rochester, N. Y.

MEET, SCHOOL FOR IDAHO

Robert V. Gates, Petrie Landscape Nurseries, Boise, Ida., president of the Idaho Association of Nurserymen, announces that the association's winter meeting and garden school have been scheduled to take place January 27 and 28. The meeting and educational sessions will be held at the Basque Center hall, Boise, Ida.

MICHIGAN CORRECTION

Through a printer's error, the dates of the Michigan Association of Nurserymen's winter convention were erroneously stated in the November 1 issue. The correct dates are January 29 to 31, at the Fort Shelby hotel, Detroit.

FIRE ANT HEARING

Notice of a public hearing November 19 on quarantining certain states on account of the imported fire ant has been given by the United States Department of Agriculture. The states under consideration for quarantining are Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee and Texas. The hearing will be held in the Riverview room, King Cotton hotel, Memphis, Tenn., starting at 10 a. m. on the date mentioned.

Included in the list of proposed regulated products are soil, sand or gravel; B&B nursery stock; forest, field or nursery-grown woody or herbaceous plants with soil attached; plants in pots or containers; grass sod, etc. The quarantine proposal indicates conditions under which regulated products or articles may be certified for movement from the affected areas.

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Euonymus alatus compactus
18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft.
Spiraea, Red-leaved Barberry, Lilac, Variegated Dogwood, Flowering Quince, Amur River and Ibolium Privet and Zabel Honeysuckle.

EVERGREENS

Juniperus glauca hetzi
18 to 24 ins. 2 to 2½ ft. 2½ to 3 ft.
Pinus nigra austriaca
2 to 3 ft. 3 to 4 ft.
Taxus cuspidata capitata
well-sheared specimens
5 to 7 ft.

SHADE TREES

Maple — Sugar, Red and Norway
All nursery-grown. Also collected specimen Sugar Maple in sizes from 4 to 8-in. cal.
Willow, Niobe Weeping, sizes up to 3½-in. cal.
Oak, Pin, in sizes up to 2½-in. cal.

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Hall's Japanese Honeysuckle
3-yr., very heavy.

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COVER ILLUSTRATION

Juniperus Horizontalis Bar Harbor

The Bar Harbor juniper, Juniperus horizontalis Bar Harbor, is like many of the other creeping forms of juniper, except that it hugs the ground closer than most others. Where it is intended that the height be not more than six to eight inches for several years, this juniper might well be considered.

The color is a soft blue to gray green during the summer, but in winter seems to be a more intense blue, with a few drift tones of plum. It has a little coarser texture than some of the others, and the tips of the branches are less inclined to break from the ground. The plant has both scale and needlelike leaves, with the inner portions of the plant often dominated by the more needle-appearing form.

I remember one case in which the plant was in a slight depression and a little below the surrounding ground level. It was easier for the caretaker to let his lawn mower ride over the plant than around it. The plant accommodated the unambitious one for years, until the main stem was shaved so thin that it decided it was not worth the effort and gave up.

Other low creeping or prostrate types of junipers that have a similar growth tendency include Juniperus squamata prostrata, Prostrate singleseed juniper, and Juniperus conferta, shore juniper. The latter is sometimes listed as Juniperus litoralis. Additional ones are similar in many respects, but are not quite so flat.

The low forms of juniper, like most of the others, require places in full sunlight or light, intermittent shade for their best growth. These forms are well suited to rock gardens, banks that are not high in organic matter and plantings under low windows, at the tops of rock walls and by terraced steps, as well as many other places that enjoy a place in the sun. These plants have been successfully planted with some of the cotoneasters, and the two seem to grow well together for several years. The reason is that neither juniper nor cotoneasters have root systems that are overly greedy.

C. E. L.

VICTOR F. SCOTT, South Jersey Colonial Nurseries, Inc., Salem, N. J., announces that the wholesale nurseries plan to open a retail stand during the coming year.

"Money Blows on Trees"

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Your fast Spray-on and big Pay-off Christmas Profit Maker—

FLAME RETARDANT! ...Famous CLAREMONT Sno-Flock

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simulates wintry drifts on
CHRISTMAS TREES
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HOLLY CLUSTERS
CONES, WREATHS
BELLS and BOWS
profitably merchandises the jingle-bells spirit of Christmas

"Sno-Flock"
yours in four colors
WHITE
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PEA GREEN
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Claremont, world's largest manufacturer of FLOCK, snows the way! Helps thousands of Florists to multiply sales and increase profits. Fluffy, flame-retardant Claremont "Sno-Flock", applied with 2-gun system (details promptly furnished), transforms 30 trees an hour into a fascinating forest. This spectacle merrily sells Christmas. Moves more holiday decorations and display effects too! With little space and negligible investment, you can spray-it-rich this season . . . so, don't delay. Get set—and Go!

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Important New Books and Old Favorites

TREES and SHRUBS

The Friendly Evergreens, by L. L. Kumlien. Seed collecting, propagation, digging and transplanting, root pruning, insects and diseases. 500 illus., 82 in color. 240 p. (1946) $10.00

Christmas Trees for Pleasure and Profit, by Chapman and Wray. Suitable land, species to plant, care of stock, laying out plantation, harvesting and marketing. 215 p., illus. (1957) $3.75

Lilacs for America. Report of 1953 Lilac Survey Committee. Lists 30 species and 800 varieties. 100 varieties recommended. Sources of supply keyed. 48 p. $1.00

Azaleas: Kinds and Culture, by H. Harold Hume. Practical, up-to-date information. 72 illus., 200 p. (1948) $6.00

Winter-Hardy Azaleas and Rhododendrons, by C. G. Bowers. Soil, planting and maintenance in the colder states. 120 p. (1954)..$3.00

Crab Apples for America, by American Ass'n of Botanical Gardens. Breeding, propagation, culture, diseases and pests. Varieties for flowers, fruits and economic purposes. 63 p. (1955) $2.00

Cultivated Conifers, by L. H. Bailey. Systematic record of 1,000 species and varieties. Information on culture, propagation, control of insects and diseases and the use of conifers in the landscape. 404 p. (1933) $13.50

Hollies, by Harold Hume. Chapters include American holly varieties, English, Chinese, Japanese, miscellaneous evergreen hollies, deciduous, caffeine, propagation, pollination, culture and holly pests. 241 p., 72 illus. (1953) $6.75

Trees for American Gardens, by Dr. Donald Wyman. Botanical and common names of 745 recommended trees. Secondary list of 1,600. Bloom, ornamental fruit, foliage colors, etc. 376 p. (1951).....$8.00

Shrubs and Vines for American Gardens, by Dr. Donald Wyman. Planting guide for nurserymen. Recommends 1,100 species and varieties; secondary list of 1,700. 800 blooming dates in sequence. Hardiness zone maps. 100 illus., 442 p. (1949) $8.00

Evergreens, by L. L. Kumlien. Selection, planting and care. Amateur. 91 p., 140 illus. (1954) $1.50

The Portable Garden (Sunset Magazine). Plants and shrubs in pots, boxes, tubs, hanging baskets. Culture charts. Illus. (1952) $1.00

PROPAGATION

Plant Propagation, by Mahlstede and Haber. Basic principles and details of practice. New techniques of propagation, producing hybrids and seed production. 413 p., 188 illus. (1957) $7.50

Plant Propagation Practices, by James S. Wells. Propagating unit equipment. Basic propagating principles. Detailed procedures for a select group of plants. 344 p., illus. (1955) $7.50

Grafter's Handbook, by R. J. Garner. Information on almost every known method of grafting; also propagation, choice and use of tools. Illus., 223 p. (1949) $4.50

Improved Practices in Propagation by Seed, by L. C. Chadwick. Collecting, storage, stratification practices. Booklet. (1936) 25c

Propagation of Plants, by M. G. Kains and L. M. McQuesten. Reference for propagators in nursery and greenhouse; also nursery management and pest control. 637 p., 375 illus., revised ed. (1942).$6.00

Plant Breeding for Everyone, by John Y. Beaty. How to find and develop new plant varieties. Covers testing, naming, introducing and patenting new varieties and the technique of hybridization. 102 p., illus. (1954) $2.75

Propagation of Trees, Shrubs and Conifers, by W. G. Sheat (English). Comprehensive material presented in encyclopedic form. Commercial practices in propagation. 479 p. (1948) $5.00

LANDSCAPE and DESIGN

Art of Home Landscape, by Garrett Eckbo. Home planning, case studies, foundations, surfacing, enclosure, plants and planting. Photos, drawings and sketches. 278 p. (1956) $5.95

Gardens Are for People, by Thomas D. Church. Information and suggestions of value for the home beautifier and the professional landscape man. 243 p., profusely illus. (1955) $10.00

Ground Cover Plants, by Dr. Donald Wyman. Describes 200 kinds of woody plant and herbaceous perennials for sun and shade. Hardiness, planting and maintenance. 175 p. (1956) $4.75

Lawn and Landscaping Handbook, by T. H. Everett. Grasses, lawns, compost, mowing, foundation planting, fertilizing, diseases and pests. Diagrams and photos. 144 p. (1956) $2.00

Complete Home Landscape and Garden Guide, by R. P. Korbobo. Edited by E. L. D. Seymour. Landscape sketching, garden plans and designing. 368 p. (1954) $3.95

65 Practical Garden Plans, by John Elliott. For crowded areas in cities, back yards, outdoor living rooms. Illus., 48 p. (1950)...$1.00

Landscaping Plans for Small Homes, by Ralph Bailey. General plans, including garden features and planting keys. 128 p. (1954) $2.00

Landscape Sketching, by Arthur Black. Shows fundamental pencil strokes and how to apply to component parts of landscape. Illus. 109 p. (1951) $5.75

Landscaping Your Home (Sunset Magazine). Many tested ideas for home landscaping. 250 illus. Paper bound. (1950) $1.00

How to Beautify and Improve Your Home Ground, by Henry B. Aul. 155 plans and drawings for out-of-the-ordinary ideas, with horticultural and architectural details. 320 p. (1949) $3.50

Small Home Landscape, by P. J. and A. B. McKenna. Landscaping problems—lawn, trees, flowers, shrubs, vegetables and fruits, soils, grading and construction. 144 p., illus. (1953) $2.00

How to Build Garden Structures, by Henry B. Aul. Grills, fireplaces, walls, walks, pools, terraces, benches, arbors, fences, fountains. 200 illus. 384 p. (1950) $3.50

How to Build Walls—Walks—Patio Floors. Information as to construction, etc., for home or garden. Hundreds of ideas and photos. 96 p. (1952) $1.50

INSECTS and DISEASES

Plant Disease Handbook, by Cynthia Westcott. Detection of diseases on trees, shrubs, vines, flowers. Illus., 746 p. (1950) $10.00

Diseases and Pests of Ornamental Plants, by Dr. Bernard Dodge and H. W. Rickett. Diseases, insects and control measures. Describes in alphabetical order pests affecting some 600 species of plants. Illus. 838 p., revised ed. (1949) $6.00

Insect Guide, by Ralph B. Swain. How to recognize the larger groups of insects. More than 450 illus., 330 in color. Covers more than 250 insect species. 261 p. (1948) $3.95

The Gardener's Bug Book, by Cynthia Westcott. Dictionary of pesticides and how to apply. Check list of pests and their control. 36 color plates, 94 line drawings. 597 p. (1956) $7.50

XUM

Books for Christmas

For Yourself, Your Employees and Your Friends

MISCELLANEOUS

Operating a Garden Center, by John J. Pinney. This popular series of articles appeared in the American Nurseryman during the past year and is now printed in book form. The author has made additions to the original articles and numerous illustrations have been added. Every phase of garden center operation is covered. It contains valuable ideas for the beginner in this work as well as for those already operating a garden center. 125 p., 61 illus..**$3.00**

Principles of Nursery Management, by W. P. Duruz. Presents the general procedure in the nursery, including growing of seedlings, moving and storing of nursery stock, grading, storage and shipping. Chapters on selling nursery stock and business management. 176 p., illus. (1953) **$3.50**

Be Your Own Nurseryman, by Robert Scharff. For the homeowner. Plant growing structures, propagation, soil, transplanting, trees and shrubs, etc. Sources of plant material. 223 p., illus. (1957)..**$3.50**

Beneath the Greenhouse Roof, by C. H. Potter. Covers construction, ventilation, water, shade and electrical equipment. Also propagation, soil, plant feeding, transplanting and potting. 246 p., illus. (1957) **$5.95**

Turf Management, by H. B. Musser. Care of golf turf and park lawns. Fertilizers, irrigation, grasses, propagation and maintenance. Diseases and insects. 342 p., illus. (1956) **$7.00**

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MAINTENANCE

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The Art of Talking by Mail

By John P. Riebel

Letter writing plays an important part in conducting many businesses. Letters are important for the effect they have on the recipient, who is another live human being like the writer. In fact, the letter really becomes the writer to the receiver. The key to successful business letter writing is learning the art of talking on paper. The result will be easy, friendly letters that are natural and state the facts without frills.

Just as stiff, stilted, old-fashioned, unnatural words have become tabu in conversation, so they should be tabu in letter writing. How long is it since you saw, or possibly dictated, a letter like the following?

> Dear Mr. Riebel:
>
> As per your request by letter of August 19th, 1956, we beg to state are enclosing herewith six (6) copies of our Bulletin No. 400 for your perusal. Trusting you will find them useful, we beg to remain,
>
> Yours very truly,

In contrast, how would a salesman say the same thing to you? Maybe this way:

> "Thanks for your letter of the 19th, Mr. Riebel. It's a pleasure to give you these six copies of Bulletin No. 400. You'll find them mighty useful, I'm sure."

Add a salutation and a complimentary closing, plus the other requisites of a standard business letter, put it in an envelope, and you have a natural modern letter that's been talked . . . not dictated!

Word Saving

The revision is not only simpler and more natural . . . it's shorter—only 28 words in the revision, compared with 37 in the stiff original. That's a saving of nine words . . . almost 25 per cent. Translated into dollars and cents, that means a saving of at least 9 cents on that letter alone. But more important by far is the friendliness and human tone of the rewrite as compared with the coldness and pompous air of the original.

Every time you dictate and sign a business letter, you are advertising in indelible words the kind of person you are—a natural, friendly, good-natured person, or a pompous stuffed shirt. Your reader doesn't know you from Adam. He has probably never seen you . . . and never expects to. But what he thinks of you and your organization depends in a large measure on the impression your letter makes on him.

Will this impression be favorable or unfavorable? Will your reader be eager to hear from you and to do business with your company again . . . or will he want to drop you like a hot potato, glad to be rid of an unfriendly bore? The result depends on your ability to put the human touch into every letter you write.

Conversational Technique

The easiest way to make your letters sound natural and human is to use the language of everyday conversation, corrected and condensed a bit, of course. Forget that, in the gay nineties, there was a so-called language of business writing. Say your piece in modern, up-to-date language. Don't make it slangy or vulgar or stiff and unnatural. Just use simple, conversational words as the writer of the following letter did in answering an inquiry:

> Dear Mr. Riebel:
>
> It was with a great deal of pleasure that I read your letter asking for our folder of 200 sales techniques. You are very welcome to several copies. This folder was designed to be of assistance to those who received it, and if it finds a place in the teaching of your courses, that would indeed be a compliment.
>
> Atlanta is reaching the peak of its springtime beauty right now. As often as one sees this phenomenon of color in pink and white dogwood, red quince, brilliant azaleas, lavender-tinted redbud trees and fresh green grass, the magic never dulls. It's like a picture of fairyland.
>
> And your erstwhile school, Georgia Tech, has grown beyond recognition. The new sports arena now being built and the already famous library are really wonders of modern architecture.
>
> I hope you will come back, and when you do, drop in to see us.
>
> Sincerely yours,

Then look at this letter which my daughter received from the dean of a large university:

> Dear Miss Riebel:
>
> Under separate cover, we are sending

Excerpts from a talk, "The Art of Talking by Mail," given by John P. Riebel, California State Polytechnic College, San Luis Obispo, at the California nurserymen's refresher course earlier this year.

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Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate
Abies concolor (Concolor Fir)		
3 to 6 ins., 2-yr., S.	$0.10	..
4 to 8 ins., 3-yr., S.	.15	..
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4 to 6 ins., 3-yr., T.	.35	$0.32
6 to 10 ins., 3-yr., T.	.45	..
Azalea kaempferi (Torch Azalea)		
3 to 6 ins., 3-yr., T.	.35	..
6 to 10 ins., 3-yr., T.	.45	..
Azalea mollis (Chinese Azalea)		
6 to 8 ins., 2-yr., T.	.22	.18
8 to 10 ins., 2-yr., T.	.35	.30
10 to 12 ins., 3-yr., T.	.65	.60
Azalea mucronulatum, lavender shades		
4 to 8 ins., 2-yr., T.	.35	.32
8 to 12 ins., 3-yr., T.	.45	..
Buxus sempervirens welleri		
8 to 10 ins., 3-yr., T.	.45	..
10 to 12 ins., 4-yr., T.	.55	..
Chamaecyparis filifera aurea		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 3-yr., T.	.45	..
Chamaecyparis lawsoniana allumi (Columnar Blue Cypress)		
10 to 12 ins., 3-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
Chamaecyparis plumosa aurea		
8 to 10 ins., 3-yr., T.	.40	.35
10 to 15 ins., 3-yr., T.	.50	.45
Cotoneaster horizontalis		
4 to 8 ins., 3-yr.	.25	..
Euonymus fortunei erectus		
10 to 12 ins., 2-yr., T.	.28	.25
12 to 18 ins., 3-yr., T.	.35	.30
Euonymus radicans coloratus,		
12 to 18 ins., 3-yr., T.	.35	.30
Euonymus radicans vegetus		
8 to 10 ins., 2-yr., T.	.35	..
10 to 15 ins., 3-yr., T.	.45	..
Ilex crenata (Pyramidal)		
8 to 10 ins., 2-yr., T.	.35	..
10 to 15 ins., 3-yr., T.	.45	..
Ilex crenata convexa (bullata)		
10 to 12 ins., 2-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.65	.55
12 to 15 ins., 5-yr., field row spaced	1.00	.90
Ilex crenata hetzi		
8 to 10 ins., 2-yr., T.	.40	.38
10 to 15 ins., 3-yr., T.	.55	..
Ilex rotundifolia (Round-leaved)		
8 to 10 ins., 2-yr., T.	.38	.35
10 to 12 ins., 3-yr., T.	.48	.45
12 to 15 ins., 3-yr., T.	.70	.55
12 to 15 ins., 5-yr., T., field row spaced	1.00	.90
Juniper, Andorra (Purple Andorra Juniper)		
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.50	.45
Juniperus canadensis aurea (Golden Canadian Juniper)		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 3-yr., T.	.45	..

FINISHED NURSERY STOCK

All plants listed below priced in the ground. Purchaser to call for at the nursery. About 10,000 in this block. Will give a block clearage price on large amounts.

	Each 100 rate	Each 1000 rate
Ilex crenata convexa (bullata)		
12 to 15 ins.	$1.50	$1.10
15 to 18 ins.	2.00	1.60
18 to 24 ins.	2.50	...
Ilex rotundifolia		
12 to 18 ins.	1.50	1.10
18 to 24 ins.	2.00	1.60
Juniperus glauca hetzi		
18 to 24 ins.	2.00	1.60
24 to 36 ins.	2.40	1.75
Juniperus pfitzeriana compacta, Nelson's compact variety		
12 to 15 ins.	1.50	1.10
15 to 18 ins.	2.00	1.50
Taxus cuspidata (about 125 of these plants)		
4 to 5-ft. spread	8.00	...

(10 to 200 at the 100 rate; 200 up at the 1000 rate.)

	Each 100 rate	Each 1000 rate
Juniperus glauca hetzi (Hetz Juniper)		
8 to 10 ins., 2-yr., T.	$0.35	$0.30
10 to 12 ins., 2-yr., T.	.40	.35
12 to 15 ins., 3-yr., T.	.55	.48
Juniperus hibernica fastigiata (Compact Irish Juniper)		
10 to 12 ins., 2-yr., T.	.38	.33
12 to 15 ins., 3-yr., T.	.45	.40
Juniperus pfitzeriana, regular		
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
15 to 18 ins., 3-yr., T.	.65	..
Juniperus pfitzeriana aurea (Golden Pfitzer Juniper)		
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.65	..
Juniperus pfitzeriana compacta, Nelson's compact variety		
6 to 8 ins., 1-yr., T.	.35	.30
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.65	..
Koelreuteria paniculata		
2-yr., S., field bed	.12	.08
6 to 12 ins., 3-yr., T.	.18	.15
Leucothoe catesbaei		
8 to 10 ins., 3-yr., T.	.35	.30
10 to 12 ins., 3-yr., T.	.45	..
12 to 15 ins., 3-yr. T.	.55	..
Liquidambar styraciflua		
2-yr., S., bed run	.10	.08
6 to 12 ins., 3-yr., T.	.15	.12
Mahonia aquifolium		
2 to 5 ins., 3-yr., S.	.20	.18
Picea alba (White Spruce)		
3 to 6 ins., 2-yr., S.	.05	.02½
6 to 12 ins., 3-yr., S.	.08	.04

	Each 100 rate	Each 1000 rate
Picea excelsa (Norway Spruce)		
6 to 10 ins., 4-yr., T.	$0.12	$0.06
8 to 14 ins., 4-yr., T.	.16	.09
Picea pungens (Colorado Blue Spruce)		
4 to 6 ins., 4-yr., T.	.20	.18
6 to 8 ins., 4-yr., T.	.35	.32
Pieris floribunda (Mountain Andromeda)		
6 to 8 ins., 2-yr., T.	.35	..
Pieris japonica		
8 to 10 ins., 2-yr., T.	.35	..
10 to 12 ins., 3-yr., T.	.65	..
Pinus mugo (Dwarf Mugho Pine)		
3 to 6 ins., 3-yr., T.	.25	.20
Pinus nigra (Austrian Pine)		
5 to 10 ins., 4-yr., T.	.15	.07
Pinus sylvestris (Scotch Pine)		
5 to 8 ins., 4-yr., T.	.10	.06
8 to 14 ins., 4-yr., T.	.15	.07
Pseudotsuga douglasi (Douglas Fir)		
2 to 3 ins., 2-yr., S.	.06	.02½
3 to 5 ins., 3-yr., S.	.08	.03½
Pyracantha coccinea lalandi		
6 to 10 ins., 2-yr., T.	.32	.30
10 to 15 ins., 3-yr., T.	.40	.38
Rhododendron carolinianum		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Rhododendron catawbiense		
2 to 4 ins., 3-yr., T.	.35	..
4 to 8 ins., 3-yr., T.	.45	..
Rhododendron Hybrid, various colors		
3 to 5 ins., 3-yr., T.	.45	..
5 to 8 ins., 4-yr., T.	.55	..
8 to 10 ins., 4-yr., T.	.85	..
10 to 15 ins., 5-yr., T.	1.00	..
Taxus capitata (Upright Yew)		
4 to 8 ins., 4-yr., T.	.40	.35
8 to 10 ins., 4-yr., T.	.50	.48
Taxus cuspidata (Spreading Yew)		
6 to 8 ins., 2-yr., T.	.38	.35
8 to 10 ins., 2-yr., T.	.45	.40
10 to 15 ins., 3-yr., T.	.55	.45
Taxus media hicksi (Hicks' Yew)		
6 to 8 ins., 2-yr., T.	.35	..
8 to 10 ins., 2-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis douglasi aurea (Geo. Peabody Golden Arborvitae)		
8 to 10 ins., 3-yr., T.	.45	..
10 to 15 ins., 3-yr., T.	.55	..
Thuja occidentalis elegantissima lutea		
10 to 12 ins., 3-yr., T.	.45	.40
12 to 15 ins., 4-yr., T.	.55	.50
15 to 18 ins., 4-yr., T.	.65	..
Thuja occidentalis globosa		
8 to 10 ins., 2-yr., T.	.40	.35
10 to 15 ins., 4-yr., T.	.65	..
Thuja occidentalis pyramidalis		
10 to 12 ins., 2-yr., T.	.45	..
12 to 15 ins., 3-yr., T.	.55	..
15 to 18 ins., 3-yr., T.	.65	..
Tsuga canadensis (Hemlock)		
8 to 10 ins., 4-yr., T.	.40	..
10 to 15 ins., 5-yr., T.	.55	.50
Viburnum opulus nanum		
6 to 8 ins., 3-yr., T.	.35	.32
8 to 10 ins., 4-yr., T.	.45	.42
10 to 12 ins., 4-yr., T.	.55	.50

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you a copy of our 1957 summer session bulletin. I trust that you will find it interesting and that it will help you to decide to come to our summer session. If there are any questions that remain unanswered in your mind, kindly do not hesitate to write me.

With best wishes, I remain,

Yours very sincerely,

How could a man be smart enough to earn a Ph.D., become a dean and still write such drivel? A letter like that would not make a student out of me. The instruction might turn out to be as stiff and uninteresting as the dean's letter. I'd be afraid to take a chance. Why couldn't this man have forgotten he was a high and mighty dean, looking down his academic nose at a mere prospective student? Why didn't he use some salesmanship actually to sell this young woman on coming to his university? Here's how he could have done it adroitly:

Dear Miss Riebel:

It is a pleasure to send you a copy of our 1957 summer session bulletin. I hope you will find it interesting and that you will want to come to the University of Blank this summer.

If you would like to have more information, Miss Riebel, please let me hear from you.

Sincerely yours,

Here is a short list of old-fashioned, hackneyed, often meaningless expressions (which have been italicized) that are not conversational and that make otherwise good, natural writing stiff and stuffy. The modern equivalents follow in ordinary type. Study the list carefully, and then resolve never again to let

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS

	Per 10	Per 100
Clethra alnifolia		
18 to 24 ins., clumps	$ 4.00	$ 35.00
2 to 3 ft., clumps	6.00	50.00
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2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
4 to 6 ft., clumps	10.00	90.00
Viburnum cassinoides		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
Viburnum dentatum		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	7.00	60.00
4 to 5 ft., clumps	9.00	70.00

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Paper Birch		
4 to 6 ft., 3 stems and up	40.00	....
6 to 8 ft., 3 stems and up	60.00	....
Gray Birch		
4 to 6 ft., 3 stems and up	30.00	250.00
6 to 8 ft., 3 stems and up	45.00	350.00

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Betula papyrifera		
6 to 8 ft., shows color	12.00	100.00

All stock is first-quality collected material

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	Per 100	Per 1000
Acer saccharum		
2 to 3 ft.	$ 15.00	....
3 to 4 ft.	30.00	....
4 to 6 ft.	70.00	....
6 to 8 ft.	125.00	....
Betula papyrifera		
1 to 2 ft.	12.00	$100.00
2 to 3 ft.	15.00	120.00
4 to 6 ft.	40.00	....
Clethra alnifolia		
6 to 18 ins.	8.00	70.00
Ilex verticillata		
1 to 2 ft.	12.00	100.00
Syringa vulgaris		
1 to 2 ft.	8.00	70.00
Viburnum acerifolium		
6 to 18 ins.	15.00	120.00
Viburnum cassinoides		
1 to 2 ft.	9.00	80.00
Viburnum dentatum		
1 to 2 ft.	9.00	80.00

HEMLOCK SEEDLINGS

Tsuga canadensis		
6 to 9 ins.	5.00	30.00
9 to 12 ins.	8.00	70.00
12 to 18 ins.	15.00	120.00

See the October 15 issue (pages 20, 21 and 22) for our complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens.

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Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade...	$5.00	$45.00	$42.50

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P. O. Box 305-F **HOMER CITY, PA.**

these bromides creep into your business letters:

As per your request by letter of August 19*th,* — In your letter of August 19,

Per your request, you will *find* enclosed — As you requested, here is (are)

We are enclosing *herewith* six copies of — Here are six copies of

Under separate cover, we are sending you — It is a pleasure to send you

Enclosed *kindly find* several booklets on — Enclosed are several booklets on

In accordance with your wishes — As you requested

Will you *kindly advise* at your *earliest* convenience? — Please let us know promptly

We *anticipate* we will be *in a position to* — we will be able

Kindly feel free to call upon us — Please (or Just) call on us

In the event that you have applications for — If you have use for

Will you *kindly* be *good enough to make your wishes known* — Please let us know what you want

Enclosed *herein* and *attached hereto* please find — Enclosed is

We *trust* that you will find it interesting — I hope you will find it interesting

Would you *be kind enough* to fill it in? — Please fill it in

We are in receipt of a request from — We have received a request from

Kindly use the *self-addressed, stamped* envelope — Just use the enclosed envelope

Assuring you of our continued cooperation *at all times, we beg to remain,* — You may be sure of our continued cooperation, Mr. Riebel

You have not *favored* us with your *presence* at our recent meetings — You haven't attended our recent meetings

We *trust* you will *see fit to accept and sign* the application enclosed *herewith* and return to us *at your earliest convenience* — Please sign and return the enclosed application promptly

This will acknowledge receipt of your request — Thanks for your request

The writer is planning on working with you — I plan to work with you

We are *forwarding under separate cover* copy of our latest catalog — We are sending you a copy of our latest catalog

Hoping to be of service to you *in the near future, I remain,* — I hope I can help you again, Mr. Doe.

It would be appreciated if you could please — Could you please

This office is in *receipt* of your resume — Thank you for your resume, Mr. Blow

I have *at hand* your *favor* of the 22*nd* — Thanks for your letter of May 22.

Letters written in stiff language are truly poison; they kill the friendly, human relations that must exist between two individuals or organizations. They destroy the human relationship that any organization needs to survive today. Business people — who really are friendly human beings once you get under their skins—like warm, friendly letters. Here, for instance, is a typical opening sentence to the kind of friendly, human requests I like to send out:

Dear Mr. Riebel:

Thank you for your very friendly letter

requesting our booklet, "One-Lesson Course in Onion Skin Papers."

Like people, letters can and do have personalities—the personalities of their writers. Every person is an individual. No two look exactly alike or think or act alike. Likewise, no two letters should look or read alike. Yet all the letters turned out by the average business bear a startling sameness that makes them dull, dry and uninteresting.

Every business letter is as truly a salesman as the most high-priced, flesh-and-blood go-getter! That's why you must make every letter you write truly representative of you and your organization.

GARDEN CENTERS

[Continued from page 14]

make access easy. Place your buildings parallel to the long axis of the parking lot, so they present their greatest dimensions to the street. This will result in a more impressive appearance to the passer-by and at the same time prove more convenient for the customer. Seeing your entire establishment at a glance will make it easy for him to visit the part that interests him the most. An accompanying diagram illustrates this arrangement shown on page 14.

It is not necessary to spend excessive sums on your garden center. The prime considerations are roominess, convenient arrangement and neatness. No building is inexpensive these days, but buildings constructed at comparatively low cost can be not only attractive, but adequate for their purpose. Elaborate salesrooms with an expensive look may discourage many customers who feel that your prices also will be high. Strive for attractive design, but one that is not extreme. You might find it will pay you to employ an architect, who can not only create a pleasing design, but help in keeping down the cost of construction.

Just a word of caution is timely: An architect who has no knowledge of the nursery business or the needs of the garden center operator, if left to his own devices, might design a building that is attractive but impractical. That has happened a number of times. If you employ an architect, work with him and insist on a building design that will be attractive and practical.

Building Needs

A common error in planning sales buildings is to make them too small. You will need adequate room for the proper display of your merchandise and you should provide

DON'T FORGET LAST YEAR'S FRIGHTFUL LOSSES FROM WINTER DAMAGE!

Last year, millions of dollars' worth of fine planted stock suffered the abuses of winter burn and sunscald through neglect and ignorance.

Millions of dollars' worth of transplanted and established stock may also succumb this year, through ignorance and neglect! Plantsmen who protected their trees last winter saved thousands of dollars of plant material.

Ever since horticulture became a science, gardeners have looked for a simple way of protecting precious shrubs and trees against the ravages of winter . . . and there was no simple way UNTIL WILT-PRUF CAME ALONG!

NOW PLASTICS

Now out of the world of miracle plastics comes a protective coating which, for pennies per application, will resist the nuisances of winter weather without resorting to expensive and bulky wrappings. WILT-PRUF is a harmless plastic liquid, which, when sprayed on plant material, forms a barrier against the cold elements and at the same time retards the shocking water losses and resultant wilt of sun scorch. Similar applications of WILT-PRUF before autumn transplanting assure added plant protection against damage on your fall landscape jobs.

BETTER PROTECTION DEMANDED

Homeowners will be seeking a better solution to these winter problems—because of last year's failures! They will ask many questions—they will want *up-to-date* answers! So why not face the facts? Let them know that economical and effective WILT-PRUF is *your* best weapon against fall and winter damage—and theirs! It is also available as a homeowners' item.

WILT-PRUF protects valuable plant material in many other ways. Get all the details now from your nearest WILT-PRUF distributor, or write for nearest distributor.

NURSERY SPECIALTY PRODUCTS, INC.
CROTON FALLS, N. Y.

XUM

READY FOR SHIPMENT NOW

	Per 100	Per 1000
Berberis thunbergi atropurpurea (Red-leaved barberry), 2-yr., S.		
6 to 18 ins., nursery run	$ 7.50	$ 60.00
4 to 9 ins., hand graded	5.00	35.00
9 to 12 ins., hand graded	7.00	50.00
12 to 18 ins., hand graded	10.00	75.00
18 to 24 ins., hand graded, bushy	20.00	175.00
Cornus florida (White Dogwood), 1-yr., S.		
4 to 15 ins., nursery run	5.00	40.00
Below grafting size	4.00	35.00
Grafting and budding size	7.50	60.00
Cornus florida rubra (Pink-red Dogwood), grafted		
10 to 18 ins., 2-yr., B. R.	75.00	700.00
18 to 24 ins., 2-yr., B. R.	125.00	1100.00
Forsythia Spring Glory		
18 to 24 ins., 2-yr., 2 br. and up	20.00	175.00
2 to 3 ft., 2-yr., 3 br. and up	30.00	275.00
3 to 4 ft., 2-yr., 4 br. and up	45.00	....
Euonymus alatus compactus		
1 and 2-yr. cuttings	17.50	150.00

BROUWER'S NURSERIES
Box 25 New London, Conn.

HEMLOCK
Rhododendron—Kalmia
Azalea
CURTIS NURSERIES
CALLICOON, N. Y.

BOULEVARD NURSERIES
Newport, R. I.
- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

DECIDUOUS AND EVERGREEN TREES AND SHRUBS
Outstanding assortment.
Write for Wholesale Price List.
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LITTLE SILVER, N. J.

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Own Root
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Red Raspberry
Flowering Shrubs
Boston Ivy
Currants
IVAN R. CONGDON NURSERY
North Collins, N. Y.

QUALITY STOCK GROWN BY US
Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).
Seedlings and transplants.
DANEGGER'S HI-WAY NURSERY, INC.
P. O. Box 336 MILFORD, DEL.

LEUCOTHOE CATESBAEI
A good broad-leaved evergreen that grows in dense shade; lily-of-the-valley-like flowers, reddish-bronze foliage in winter. Contrasts well with azaleas and rhododendrons. Fine for flower arrangements. 4 to 6 ins., T., **15c** each; 6 to 8 ins., T., **20c** each. Can be transplanted now.
Send for list of other choice plants.
ALANWOLD NURSERY
NESHAMINY, Bucks Co., PA.

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Send For Information
WHOLESALE PRICE LIST
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Native American Holly Farms
115 S. PENN ST. MANHEIM, PA.

TAXUS
Upright, 6 to 14 ft.
Also Other Varieties of Taxus.
BULK'S NURSERIES
BABYLON, L. I., N. Y.

HOLLIES
One of the most complete collections of the better named varieties of American and English holly, 3 to 6-inch pots. Field plants, 2 to 5 ft. Send for list.
ANGELICA NURSERIES
R. D. 1 MOHNTON, PA.

For Quality Stock
RICKERT NURSERIES
Successor to Moon's
Established 1767
MORRISVILLE, PA.

SPLIT ROCK NURSERIES
Propagators and Growers
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PARAMUS, N. J.
Phone COlfax 2-5873

some space for your office. If possible, locate the office in a spot that is not too accessible to the public. You will need privacy to get your work done. Usually the rest rooms are placed in the sales or store building. If cost is a limiting factor, the building can be made smaller than desired at first, but should be designed in such a way that it can be enlarged without damage to the over-all plan.

Since the salesroom or store building is the heart of your garden center, it should be placed in a prominent spot, where it will be recognized readily and be easily accessible. Usually this means it will be the central feature of the layout. It is desirable to have large display windows across the front, to provide plenty of light and present an inviting appearance. It is also a good idea to have a large window facing the shade house, to permit the customers to view the nursery stock on display.

Shade Houses

Garden centers can be set up without lath or shade houses. Many centers in the northern states that have cool summers manage to get along without any shade, but in the south some shade is desirable. Aside from the value of the shade to the plants there is a psychological factor involved in displaying plants under shade. The shade not only improves the appearance of the plants, but it seems to weaken the customer's sales resistance. A large garden center that was doing a good business without shade decided to build a small lath house to protect shade-loving plants. The result was a marked increase in the sale of plants under shade. Now nearly all of this garden center's nursery stock is displayed under shade.

The shade house should be near the salesroom and attached to it, if possible, for the convenience of the customer. Lay it out with the greatest dimension parallel to the street and, if possible, construct it as an extension of the salesroom. This will result in a long, impressive structure, all parts of which are easily accessible to the customer. The front of the shade house should be open, permitting the customer to enter it from any point directly from the parking lot.

Many shade houses are now being constructed of steel posts, with lightweight steel girders to support the lath. These are attractive and long-lasting, but costly. If you wish to build with less expense, you can use 2 or 3-inch used iron pipe set in

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AARS
HYBRID TEA
WHITE KNIGHT
PLANT PAT. NO. 1359
ASEXUAL REPRODUCTION OF THIS PATENTED PLANT WITHOUT LICENSE IS PROHIBITED

White Knight - 1958 ALL-AMERICA ROSE SELECTIONS WINNER from the Conard-Pyle Co.

THE FINEST WHITE HYBRID TEA ROSE EVER CREATED!

Originated by Francis Meilland, Creator of Peace.

This is the first really great white hybrid tea . . . the rose they said could not be created! WHITE KNIGHT is strong, upright, free-blooming . . . with wonderful form of bud and bloom. It is unique in that the flowers do not "ball" or discolor. They stay white throughout! An ideal cutting rose that all America has been looking forward to! WHITE KNIGHT will mean profits for you!

Order from Your Grower NOW!

Don't Miss the Boat! The Demand Will Be Great!

WRITE YOUR GROWER TODAY

If your regular grower cannot supply your needs write to the Conard-Pyle Co.

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THE CONARD-PYLE CO.
WEST GROVE 220, PA.

Growers of Star Roses

concrete, on 10 or 12-foot centers. Creosoted wooden poles set in concrete will also serve well. Tie the posts or poles together with 2x6-inch planks at a height of not less than eight feet; higher is better. An easy way to fasten them to iron posts is to bolt them through holes drilled at the right height. Treat the timbers with a wood preservative that is nontoxic to plants.

Snow fencing four feet wide makes good shade. Supports are 2x4's laid on edge; tack the fencing to the 2x4's at intervals, to hold it in place. If you live in an area subject to heavy snow, the fencing can be easily removed during the winter. It is a good idea to enclose the exposed sides of the shade house, to keep out wind and sun, but be sure to leave the front open.

Glass Houses

Give some thought to greenhouses or conservatories. While they are not essential to a profitable garden center operation, they can be made to increase sales and profits. Even though you decide against one at the beginning, it would be well to provide space for it should you decide later to build one.

A good plan is to construct the greenhouse as an extension of the

SHADE TREES

	Each Per 100	Each Per 1000
Norway Maple		
1-yr., S., 5 to 10 ins.	$0.12	$0.10
Honey Locust, Thornless		
1-yr., S., 6 to 12 ins.	.15	.10
Pin Oak, true		
1-yr., S., 6 to 12 ins.	.15	.10
TAXUS		
Taxus capitata		
4-yr., S., XX, 8 to 12 ins.	.65	.60
3-yr., S., X, 6 to 8 ins.	.35	.32
3-yr., S., X, 5 to 6 ins.	.25	.22
Taxus browni		
3-yr., XX, 8 to 12 ins.	.65	.60

Cash with order, free packing. 50 at 100 rate; 300 at 1000 rate. Minimum order $20.00. Write for quotations on larger quantities.

BROOKFIELD GARDENS
U. S. Rt. 46 Delaware, N. J.

"A friendly, efficient sales service"

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Representing:
Adams Nursery, Inc.
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LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list on printed stationery.

DEERFIELD NURSERIES
DEERFIELD, N. J.

Stroudsburg, Pa.

A Lesson In Buying A Cantaloupe

This summer I was out for a ride with the family and saw a nice big pile of the best looking cantaloupe I have ever seen, at a roadside market. Of course, I came to a screeching halt and got out to look and, lo and behold, they were at a bargain price, too. I used my own method (everybody has their own secret way of doing it) of picking out the absolute best one in the pile and took it home for breakfast. The next morning it was nice and cold and I cut it, cleaned it for the table and sat down really smacking my lips.

This cantaloupe, which was the nicest I have ever seen, was the most tasteless mass of nothing I have ever known. Boy, did I get fooled—I couldn't say I was cheated because I picked out the melon. Who could I blame, because I had taken advantage of a bargain price? The fact remains that I threw the melon away and I got nothing for my money.

There is a moral to this story. It taught me a lesson; can you learn something from it, too? The value of any object is not always apparent on the surface and a bargain price doesn't necessarily denote a bargain.

We have always felt that holly was somewhat like a cantaloupe in this respect. Liners can be purchased at nearly any price, but upon their performance in later years hangs the answer as to whether or not they were a bargain. If they are damaged or killed by winter, after two or three years, they were no bargain, even if you got them free. If they don't berry well or have poor foliage, they were no bargain. If they have a poor growth habit and you have 10 per cent unsalable after five years, again no bargain.

Our holly is the result of nearly a quarter of a century of breeding, culling and testing to find varieties that will withstand the rigors of our northern winters and we are now set up with varieties that can be depended upon to grow well, have nice foliage, berry well, be perfectly hardy and make you money.

If you would like our list, please do not hesitate to write me and if you do write me, please let me know your method of picking out a cantaloupe so I don't get stung again.—

Paul R. Bosley, The Bosley Nursery, Mentor, Ohio.

salesroom, on the end opposite the shade house, thus increasing the length of your layout and making it more impressive. Having your salesroom in the center of your facilities will give your customer easy access to all of your merchandise.

The garden center greenhouse is not used for growing plants, but rather for their care while on display for sale. The growing of plants is a separate business, requiring separate facilities. Do not plan to grow plants in your greenhouse if you expect to sell from it.

CHRISTMAS TREE GRADES

The agricultural marketing service of the United States Department of Agriculture issued United States Standards for Christmas trees that became effective November 1, 1957. These standards were originally proposed July 27, 1957. Thirty days were allowed for comment, and views expressed were considered before promulgation of the standards.

Covered in the standards for Christmas trees are such factors as density, taper, balance, deformities, height and other visible factors, all of which are defined. Three grades are recognized: U. S. premium, U. S. No. 1 and U. S. No. 2. Trees not meeting the requirements of any of the foregoing grades are culls.

ATLAS ROSE FARMS CHARGE

Atlas Rose Farms, Brooklyn, N. Y., were, on October 10, charged by the federal trade commission with misrepresenting the origin, quality, variety and color of the rosebushes it buys from others and sells by mail order to florists and direct to the public. Named in the complaint are Lee Atlas and Elias and Robert Abolafia, officers of the company. A period of 30 days was granted in which to file answer to the complaint. A hearing will be held before an F. T. C. examiner in New York city December 16, according to a report in a recent A. A. N. News Letter.

NEW JERSEY SESSION

At a regular meeting of the North Jersey Metropolitan Nurserymen's Association held in the Peacock House, Mountain View, N. J., October 17, the guest speaker was Robert Clark, of Rutgers University, New Brunswick, N. J. Mr. Clark made a trip to Europe last summer to study varieties of holly there. He brought back some excellent pictures of mature holly plants that

LIQUIDAMBAR

The nicest stock of finished Sweet Gum (Liquidambar styraciflua) you have ever seen. Our plants are all propagated from seed gathered from native Illinois trees—do not compare these trees in hardiness and adaptability to northern conditions with southern or collected stock.

All trees are full-headed and low-branched as Sweet Gum should be grown.

Come by and select your plants, or order a truckload straight or mixture with our other good stock.

	10 rate	100 rate
5 to 6 ft., B&B	$ 3.00	$ 2.75
6 to 8 ft., B&B	5.00	4.75
8 to 10 ft., B&B	7.50	7.00
1½ to 2-in. cal., B&B	12.00	11.50
2 to 2½-in. cal., B&B	15.50	15.00

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One of the world's greatest nursery centers. Best soil for extensive roots. Lake Erie tempered for vigor.

Send for free booklet and map.

Names, locations and types of plants grown by 74 members representing 4,000 acres of the very finest nursery stock. Write to:

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Roses, Shrubs, Trees, Vines, Azaleas, Hollies, Rhododendrons, Evergreens, Fruit Trees, Perennials, Liners—Finished Stock—All Sizes.

ARMINTROUT'S EVERGREEN NURSERY
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Seedlings—Transplants
Finished Stock
Send for price list.

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ORNAMENTALS
LINING-OUT STOCK
Send for Complete Trade List.
NEW CARLISLE, O.

Seedlings and Transplants
NEWPORT NURSERY CO.
NEWPORT, MICH.

he studied in Germany, France and England. In showing the pictures, he explained the different varieties, emphasizing the plants seen in Kew Gardens, in England. Mr. Clark answered many questions of the members. The meeting was then adjourned, and all enjoyed a fine dinner.

During 1956, the average number of active members was 60. Ten regular meetings were held during the year, with an average attendance of 23 members at each, the annual picnic and other outings not being included in this attendance figure.

So far, 1957 attendance is higher than in the previous year, with two meetings remaining to be held.

Edward S. Wyckoff, Sec'y.

JUNAY'S GARDEN CENTER

[Concluded from page 12]

with yellow trim. Ample window space for display is afforded. A large pylon sign alongside the highway ties in well with the contemporary design of the building.

Junay's will be open on Sunday and every other day of the week except Thursday. Mr. and Mrs. June have a large crew to handle all phases of their business. In charge of the garden shop is Orran L. "Scotty" Kissick, well-known former florist and seedsman of Portland.

Open house was held October 8 and 9 for the trade, and many nurserymen were on hand to wish the Junes well in their new venture. October 10, open house was held for friends and customers. Refreshments were served on all three days. The formal opening day was October 11, when the shop was beautified by many plants and cut flower arrangements from well wishers.

C. H. P.

DWARF SHRUBS

The demand for dwarf shrubs and for more information about them has caused the Morton Arboretum, Lisle, Ill., to devote the October, 1957, issue of its 4-page bulletin of popular information to comments on newer varieties. Those about which a paragraph of information is given are Kingsville variegated Japanese barberry, crimson pygmy barberry, dwarf dogwood, Arnold dwarf forsythia, yellow-edge Japanese kerria, Mosnat dwarf privet, fragrant sumac, early alpine currant, Waluff bumalda spiraea, dwarf Thunberg spiraea, cut-leaved stephanandra and Hancock prostrate coralberry.

PLUMFIELD NURSERIES, Inc.

P. O. Box 7 **FREMONT, NEB.**

TERMS: Cash unless satisfactory credit is established. Packing at cost.

DECIDUOUS SEEDLINGS:	Per 100	Per 1000
Acer ginnala (Ginnala Maple)		
6 to 12 ins.	$ 3.00	$25.00
Acer negundo (Box Elder)		
12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.40	12.00
Ampelopsis veitchi (Boston Ivy)		
2-yr., No. 1, S.	30.00	250.00
2-yr., medium, S.	20.00	150.00
Caragana arborescens		
6 to 9 ins.	1.70	15.00
Celtis occidentalis (Hackberry)		
6 to 12 ins.	1.80	15.00
Clematis ligusticifolia		
8 to 15 ins., 1-yr.	4.50	40.00
Crataegus arnoldiana		
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00
Elaeagnus commutata (Silverberry)		
18 to 24 ins.	6.50	60.00
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00
Fraxinus lanceolata (Green Ash)		
3 to 4 ft.	5.60	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
Gleditsia triacanthos inermis (Thornless Honey Locust)		
3 to 4 ft.	8.00	75.00
2 to 3 ft.	5.00	45.00
6 to 9 ins.	1.70	14.00

HARDY UNDERSTOCKS FOR THE NORTH	Per 100	Per 1000
Malus Columbia		
No. 1	$5.50	$50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
Malus Hopa		
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
Malus Manchurica		
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00
Malus Rosybloom		
No. 1	5.50	50.00
No. 2	4.50	40.00
No. 3	3.00	25.00

	Per 100	Per 1000
Morus tatarica (Russian Mulberry)		
6 to 12 ins.	$ 1.40	$12.00
Prunus americana (Native Plum)		
¼-in. cal.	4.50	40.00
No. 1	4.00	35.00
No. 2	2.90	25.00
No. 3	2.10	18.00
Prunus armeniaca (Siberian Apricot)		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	6.50	60.00
6 to 12 ins.	2.50	20.00
Prunus besseyi (Western Sand Cherry)		
2 to 3 ft.	8.00	75.00
18 to 24 ins.	5.50	50.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
Prunus japonica		
18 to 24 ins.	8.00	75.00
12 to 18 ins.	6.00	55.00
6 to 12 ins.	4.50	40.00
Prunus melanocarpa (Chokecherry)		
6 to 12 ins.	4.50	40.00
Prunus serotina (Wild Black Cherry)		
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
Prunus tenella (Russian Almond)		
12 to 18 ins.	5.50	50.00
6 to 12 ins.	4.00	35.00
Prunus tomentosa (Nanking Cherry)		
2 to 3 ft.	14.00	120.00
18 to 24 ins.	8.50	80.00
12 to 18 ins.	6.00	55.00
Prunus triloba		
2 to 3 ft.	15.00	130.00
18 to 24 ins.	9.00	85.00
12 to 18 ins.	6.50	60.00
6 to 12 ins.	3.00	25.00

	Per 100	Per 1000
Pyrus ussuriensis (Korean Pear)		
No. 1	$5.50	$50.00
No. 2	5.00	45.00
No. 3	4.50	40.00
Quercus palustris (Pin Oak)		
2 to 3 ft.	15.00	140.00
18 to 24 ins.	12.00	110.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00
Quercus rubra (Red Oak)		
2 to 3 ft.	15.00	140.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
6 to 9 ins.	5.50	50.00
Robinia pseudoacacia (Black Locust)		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
12 to 18 ins.	2.40	20.00
Ulmus americana (American Elm)		
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.20	28.00
Ulmus pumila (Chinese Elm)		
2 to 3 ft.	4.50	40.00
18 to 24 ins.	3.20	28.00
6 to 12 ins.	1.40	12.00
Shepherdia argentea (Buffalo Berry)		
6 to 9 ins.	4.00	35.00

Send us your list for quotations on large quantities.

LINING-OUT EVERGREENS: Bare-root.	Each Per 10	Each Per 100	Each Per 1000
Admirabilis Creeping Juniper			
12 to 15 ins., TTT	$0.75	$0.70	$0.65
9 to 12 ins., TTT	.60	.55	.50
Andorra Juniper			
12 to 15 ins., TTT	.75	.70	.65
9 to 12 ins., TTT	.60	.55	.50
Irish Juniper			
6 to 9 ins., TTT	.45	.40	.35
Pfitzer Juniper			
15 to 18 ins., TTT	1.10	1.00	.90
12 to 15 ins., TTT	.85	.80	.75
9 to 12 ins., TTT	.70	.65	.60
6 to 9 ins., TTT	.45	.40	.35
Gold Tip Pfitzer Juniper			
12 to 15 ins., TTT	.85	.80	.75
9 to 12 ins., TTT	.70	.65	.60
6 to 9 ins., TTT	.45	.40	.35
Hetz Juniper			
18 to 24 ins., TTT	1.45	1.35	1.25
15 to 18 ins., TTT	1.10	1.00	.90
12 to 15 ins., TTT	.85	.80	.75
9 to 12 ins., TTT	.70	.65	.60
6 to 9 ins., TTT	.45	.40	.35
Savin Juniper			
18 to 24 ins., TTT	1.45	1.35	1.25
15 to 18 ins., TTT	1.10	1.00	.90
12 to 15 ins., TTT	.85	.80	.75
9 to 12 ins., TTT	.70	.65	.60
Thuja americana pyramidalis			
15 to 18 ins., TTT	1.10	1.00	.90
12 to 15 ins., TTT	.85	.80	.75
9 to 12 ins., TTT	.70	.65	.60
Woodward Globe Arborvitae			
9 to 12 ins., TTT	.70	.65	.60
6 to 9 ins., TTT	.45	.40	.35

CANNED EVERGREENS:	Each Per 5	Each Per 100
Andorra Juniper		
1-gal. can	$1.25	$1.10
Irish Juniper		
1-gal. can	1.25	1.10
Pfitzer Juniper		
1-gal. can	1.45	1.35
Hetz Juniper		
1-gal. can	1.45	1.35
Savin Juniper		
1-gal. can	1.45	1.35
Juniperus virginiana		
1-gal. can		
18 to 24 ins.	1.40	1.30
2 to 3 ft.	1.50	1.40
Koster Juniper		
1-gal. can	1.45	1.35
Taxus cuspidata		
1-gal. can	1.50	1.40
Woodward Globe Arborvitae		
1-gal. can	1.25	1.10
Euonymus alatus compactus		
1-gal. can	1.00	.90

Canned evergreens packed 5 to a basket.
PROMPTLY AVAILABLE.

XUM

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

PLANT ORIGINS

Few books on plants or botany have ever been considered classics. The one exception is the book "Origin of Cultivated Plants," by Alphonse de Candolle. Originally written in French in 1882, it is still considered a valuable reference. While somewhat familiar with the book, I had for a good many years sought a copy in vain. Only recently I was able to obtain a copy translated into English and printed in 1886.

The book concerns itself with plants that are cultivated either on a large scale for economic purposes or in orchards and kitchen gardens. It seems unfortunate that such a valuable book has been unavailable to plantsmen for so long a time. I have seen a prospectus for a similar book to be published in the near future by the National Geographic Society; no doubt it will fill the void with up-to-date information. After reading the older book, one is readily aware of its importance, and no errors are glaringly evident.

While many of the plants are either grains or vegetables and not directly of interest to nurserymen, others, such as fruits and nuts, are extensively grown by the trade. A few of the plants, dye plants, for instance, are no longer of economic interest.

Difficult Problem

The tracing of the origin of plants is not an easy study. Some have been cultivated since the beginnings of agriculture in prehistoric times. A few have been so changed by the long years of cultivation that no recognizable ancestor can be found in the wilds, as with banana, manioc and maize. Other plants naturalize and revert so readily that it is almost impossible to tell the locale of the original type.

Various proofs were accepted by de Candolle as establishing a plant's origin. Some were the recognition of the plant's name in a country's earliest literature; designs on its ancient pottery, artifacts and buildings; a search for remnants in tombs and other archeological sources; a clear-cut evidence of the plant in its wild state, and use of plant symbols in ancient ceremonies.

De Candolle studied 347 species and found that the Old World furnished 199, the Americas, 45, with sources uncertain for three plants. No species was common to both the tropical and austral regions of the two hemispheres before cultivation. Only chives, hops, strawberries, currants, chestnuts and mushrooms were common to the northern regions of the Old and New Worlds.

Major Sources

He states "The United States, in spite of its vast territory, only yields as nutritious plants worth cultivating the Jerusalem artichoke and the gourds." (To that we can at least add the blueberry group). Similarly, he says, Australia has furnished only a tree eucalyptus and a vegetable tetragonia. The principal sources of cultivated plants are Europe and western Asia, the Mediterranean basin, India, the Asiatic archipelago, the East Indies, Mexico, Brazil and Peru.

Of these species about 44 have been in cultivation since ancient times; some of them are turnip, onion, cabbage, tea, flax, olive, fig, date, palm, banana, bean, soybean wheat, mullet rice, castor oil, mulberry, vine (grapes), jujube, apricot, almond, peach, apple, quince and watermelon. He remarks, "Men have not discovered and cultivated within the last 2,000 years a single species that can rival maize, rice, the sweet potato, the potato, the bread fruit, the date, cereals, millets, sorghums, the banana and soy." These date from 3000 to 5000 years ago some, perhaps, from 6,000 years ago.

Apparently little in the way of economically important plants has been introduced into cultivation in the past 2,000 years. The Chinese,

SHADE TREES, FLOWERING SHRUBS AND TREES

Indiana-Grown, Transplanted

	Each Per 10	Each Per 100
Green Ash, X		
5 to 6 ft.	$1.25	$1.00
6 to 8 ft.	2.00	1.50
1 to 1¼-in. cal.	2.50	2.00
Chinese Elm, X		
¾ to 1-in. cal.	1.50	1.25
1 to 1¼-in. cal.	2.00	1.50
1¼ to 1½-in. cal.	2.75	2.25
Silver Maple, XX		
1 to 1¼-in. cal.	2.25	1.75
1¼ to 1½-in. cal.	2.75	2.25
1½ to 1¾-in. cal.	3.00	2.75
Thornless Honey Locust, X		
6 to 8 ft.	$2.50	$2.00
1 to 1¼-in. cal.	3.00	2.50
European White Birch, X		
3 to 4 ft.	1.50	1.25
4 to 5 ft.	1.75	1.50
5 to 6 ft.	2.25	2.00
6 to 8 ft.	2.75	2.50
Lombardy Poplar		
8 to 10 ft.	1.50	1.25
Kentucky Coffee Tree, X		
4 to 5 ft.	2.00	1.75
5 to 6 ft.	3.00	2.50
6 to 8 ft.	3.50	3.00

Send for list.

R. BRUMOND SMITH NURSERY

R. 5, Box 362 A Muncie, Ind.

(3½ miles southeast of Muncie on U. S. 35)

GREEN PFITZER JUNIPER

Well-Sheared, B&B

	Each
18 to 24 ins.	$2.00
24 to 30 ins.	2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 48 ins.	3.50
Irish Juniper	
3 to 4 ft.	2.25
Cuspidata densiforma Yew	
24 ins.	5.00
Silver Maple	
1¾-in. cal., B. R.	1.50
Chinese Elm	
1¾-in. cal., B. R.	1.50

NEUMANN BROS.

R. R. 4 Greenville, Ill.

Phone: 877-W1

ILEX ROTUNDIFOLIA

Heavily rooted, field-grown shrubs. Bare-root only.

	Per 100	Per 1000
8 to 10 ins.	$40.00	$350.00
10 to 12 ins.	50.00	450.00
12 to 15 ins.	75.00	675.00

BEARDSLEE NURSERY Perry, O.

GARDEN MUMS

Rooted Cuttings

CUNNINGHAM GARDENS, INC.

Waldron, Ind.

PINK FRENCH PUSSY WILLOW

(Salix discolor)

	Per 100	Per 1000
15 to 18 ins.	$22.50	$200.00
18 to 24 ins.	27.50	250.00
2 to 3 ft.	30.00	250.00

Write for complete trade list.

KINGWOOD NURSERIES

MENTOR, O.

UNUSUAL ORNAMENTAL MATERIAL

SPECIMENS

125 **Carpinus betulus,** 4 to 5 ft.
55 **Carpinus betulus,** 8 to 10 ft.
50 **Carpinus betulus fastigiata,** 6 to 8 ft.
50 **Crataegus phaenopyrum,** 10 to 12 ft.
250 **Crataegus phaenopyrum,** 5 to 6 ft.
500 **Euonymus alatus compactus,** 2½ to 3 ft.
85 **Fagus sylvatica asplenifolia,** 3 to 4 ft.
175 **Fagus sylvatica purpurea riversi,** 4 to 5 ft.
150 **Magnolia soulangeana,** 5 to 6 ft.
100 **Magnolia virginiana,** 5 to 6 ft.
100 **Oxydendrum arboreum,** 5 to 6 ft.
70 **Picea pungens,** 4 to 5 ft.
175 **Pseudotsuga taxifolia,** 5 to 6 ft.
1000 **Viburnum,** in variety, 5 to 6 ft.

TRANSPLANTED SHADE TREES

250 **Acer platanoides,** 1¾ to 2-in. cal.
100 **Acer platanoides Crimson King,** 1½ to 1¾-in. cal.
225 **Acer platanoides Faassen's Black,** 6 to 8 ft.
200 **Acer rubrum,** 2 to 2½-in. cal.
100 **Acer saccharum,** 1¾ to 2-in. cal.
75 **Fagus grandifolia,** 6 to 8 ft.
125 **Ginkgo biloba,** 2½ to 3-in. cal.
100 **Gleditsia triacanthos Sunburst,** 8 to 10 ft.
25 **Liquidambar styraciflua,** 2 to 2½-in. cal.
50 **Quercus borealis,** 2 to 2½-in. cal.
200 **Quercus palustris,** 2 to 2½-in. cal.
250 **Quercus fastigiata,** 6 to 8 ft.
150 **Tilia cordata,** 6 to 8 ft.
75 **Tilia tomentosa,** 8 to 10 ft.

One of our nurseries has been sold—this material must be moved by spring, 1958. Attractive prices on truckload lots.

THE WM. A. NATORP CO.
4400 Reading Rd. **Cincinnati 29, O.**
Visit our nurseries when in Cincinnati.

the great cultivators of ancient times, have added none in that time; the peoples of southern and western Asia added buckwheats, several cucurbits and alliums (onions). Even the Romans and the people of the middle ages introduced just a few vegetables, fruits and fodders. The discovery of America allowed the diffusion of cultivated plants to the two areas, without increasing the number of species under cultivation to any extent.

Prophecy

Perhaps the most extraordinary paragraph in the book (written in 1882) is the one with the author's remark, "The competition of species causes the cultivation of some to diminish, of others to increase; besides, vegetable dyes and medicinal plants are rivalled by the discoveries of the chemists. It is possible that men may succeed in making oil, sugar and flour without employing organic substances."

He also estimated that by the end of the 19th century men would cultivate on a large scale and for use about 300 species (probably true) out of the possible 140,000 in the vegetable kingdom.

He is also of the opinion that certain of our plants are actually extinct

Peach
Hydrangea P. G.
Hydrangea P. G. (Tree Form)
Ornamental Trees
Grapevines, 1-yr. and 2-yr.
Thorne Brewster
WILLOWBEND NURSERY
PERRY, O.

COMPLETE ASSORTMENT OF
Evergreens, Fruit Trees, Shade Trees, Roses and Lining-out Stock.
Write for complete list.
ONARGA NURSERY CO.
ONARGA, ILL.

Northern-Grown Liners
Christmas Tree Seedlings
Potted Evergreens
Send for price list.
JOHN G. ZELENKA EVERGREEN NURSERY
Rt. 2, Grand Haven, Mich.

HANKOW CORKSCREW TREE
(Salix matsudana tortuosa)

Unusual landscape addition to tree lawn or shrub border. Branches both large and small grow upward with an exotic corkscrew twist.

A charming hardy Oriental tree that will delight you and your horticulturally interested customers.

	Per Each	Per Dozen
6 to 8 ft.	$3.50	$35.00

Outdoor rooted cuttings, $25.00 per 100.

BEARDSLEE NURSERY
PERRY, OHIO

PERENNIALS
Shrubs and Azaleas
Top-Quality Stock
Write for our new catalog.
Springbrook Gardens, Inc.
Mentor, Ohio

Wholesale growers of the best
Ornamental Evergreens
Deciduous Trees
Shrubs and Roses
Write for our current trade list.
The Kallay Brothers Co.
1251 Madison Ave. **PAINESVILLE, O.**

HARDY QUALITY SHRUBS
Cotoneaster, Euonymus, Ilex
For Lining Out or Canning

	Each 100 rate	Each 1000 rate
Cotoneaster apiculata		
2-yr., heavy, T.	$0.45	$0.40
3-yr., heavy, T.	.60	.55
Cotoneaster divaricata		
2-yr., heavy, T.	.30	.25
Euonymus alatus compactus		
4-yr., T., 15 to 18 ins.	.55	.50
5-yr., T., 15 to 18 ins.	.70	.65
18 to 24 ins.	.85	.75
Euonymus alatus		
4-yr., T., 15 to 18 ins.	.45	.40
18 to 24 ins.	.60	.55
Euonymus alatus gracilis		
4-yr., T., 12 to 15 ins.	.45	.40
Euonymus radicans erectus		
3-yr., T., 12 to 15 ins.	.45	.40
Ilex glabra, improved strain, Naturally dense, dwarf-growing, 2-yr., T..	.50	.45

Ready for shipment. At least 50 of a kind and size, please.

Please write for complete list of lining-out stock.

THE BERRYHILL NURSERY CO.
(4½ miles northeast of Springfield on State Rt. No. 4)
P. O. Box 696 Springfield, O.

FALL 1957

These are some of our heaviest items:

Pfitzer, extra good, up to 24 to 30 ins.
Taxus cuspidata, up to 18 to 24 ins.
Taxus hicksi, up to 24 to 30 ins.
Chinese Elm, fine straight trees, up to 3 ins.
Flowering Crab Apple, up to 6 to 7 ft.
Norway Maple, up to 3 ins.
Soft Maple, up to 1½ ins.
Sugar Maple, up to 1½ ins.
Pin Oak, up to 2½ ins.
Sweet Gum, up to 2 ins.
Cotoneaster divaricata, up to 4 to 5 ft.
Honeysuckle Bush, up to 4 to 5 ft.
Rhus cotinus, up to 6 to 7 ft.
Fruit trees, all kinds
Montmorency Cherry, 1-yr.

C. M. HOBBS & SONS, INC.
Established 1875
Bridgeport, Ind.
Phone: Indianapolis CHapel 4-1812

in the wild state and that if they were no longer cultivated they would cease to be, not having the ability to sow themselves. Among these he lists maize, tobacco, bean and perhaps sweet potato, declaring the seeds of these plants do not have the power of passing unchanged through the alimentary canal of birds, tobacco excepted.

Plant Movement

Cultivated plants do not belong to any particular category, for they represent 51 different families and are all phanerogamous but mushrooms. De Candolle also states that in the history of cultivated plants he has noticed no trace of communication between the peoples of the Old and New Worlds before the discovery of America by Columbus. Neither the Norsemen, the Basques who followed whales across the Atlantic nor the gulf stream transported any plants. Between Asia and America the only exceptions are the coconut palm, that traveled by sea, and maybe the sweet potato, carried by man.

The book's comments on specific plants of interest to nurserymen will be mentioned in a later article. One cannot help thinking that a similar book on the widely planted and important ornamentals would make a fascinating story, too. Surely, the lily, the rose, the box, the laurel, the tulip, the pansy and many others have their romantic histories.

SOYBEAN CYST NEMATODE

Arkansas, Kentucky and Mississippi have been added to the list of states affected by the soybean cyst nematode quarantine, effective October 10. Previously, Missouri, North Carolina and Tennessee had been named under the quarantine. Counties in which the infestation exists or is likely to exist in the three states are as follows: Arkansas, Crittenden and Mississippi; Kentucky, Fulton, and Mississippi, DeSoto.

HEADS CORNING PLANTING

Robert J. Kessler, who has been teaching ornamental horticulture at the State University of New York's agricultural and technical institute, Alfred, N. Y., since 1948, recently assumed the position of supervisor of landscaping at the Corning Glass Works, Corning, N. Y. Stationed at the company's new administrative center, Houghton Park, he will be in charge of all indoor and outdoor plantings as well as the landscaping of new company buildings as they are constructed.

Specializing in
Table Christmas Trees

25 and up
White Pine and Red Pine
30,000 18 to 24 ins., B&B ..$1.50
20,000 24 to 30 ins., B&B .. 1.70
1,500 30 to 36 ins., B&B .. 1.90
500 3 to 3½ ft., B&B 2.40
200 3 to 4 ft., B&B 2.60
Rotproof burlap at same prices if desired. Please specify.

CHOICE TABLE TREES
(White Pine and Red Pine)
2 to 4 ft., 50 and up,
$1.15 and up.

Each tree has been trimmed three times. Ample handle has been allowed at trimming for easy stand mounting. Each tree has been fertilized and specially handled. For those who want an easy-to-sell table tree that won't shed. Try these bushy and compact trees.

WADE CHRISTMAS TREE FARMS
R. D. 1 Bellville, O.
Phone Butler: TU 3-2874
Affiliated with Wade & Gatton Nurseries, Bellville, O.—Phone: TU 3-2191

LINING-OUT and FINISHED STOCK

Ask for List

THE COTTAGE GARDENS
Our 34th Year
Nick I. W. Kriek – Harold E. Hicks
LANSING 17, MICH.

ROSES

None better grown. Conscientiously dug and graded. Bare root, wrapped or potted. Also lining-out and finished nursery stock. Reliable wholesale service since 1921.

GERARD K. KLYN, INC.
Mentor, Ohio

SHERMAN'S LINING-OUT SHADE TREES

	Per 100	Per 1000		Per 100	Per 1000
ASH, GREEN (Fraxinus lanceolata)			**OAK, Bur** (Quercus macrocarpa)		
6 to 12 ins.	$ 1.40	$12.00	9 to 12 ins.	$ 6.50	$ 60.00
12 to 18 ins.	2.40	20.00	12 to 18 ins.	8.00	75.00
18 to 24 ins.	3.00	25.00			
2 to 3 ft.	4.00	35.00	**OAK, Pin** (Quercus palustris)		
3 to 4 ft.	5.50	50.00	6 to 9 ins.	5.00	45.00
BIRCH, River (Betula nigra)			9 to 12 ins.	6.50	60.00
6 to 9 ins.	5.50	50.00	12 to 18 ins.	8.00	75.00
9 to 12 ins.	6.50	60.00			
12 to 18 ins.	8.00	75.00	**OAK, Red** (Quercus rubra)		
18 to 24 ins.	10.00	90.00	9 to 12 ins.	6.50	60.00
ELM, Chinese (Ulmus pumila)			12 to 18 ins.	8.00	75.00
12 to 18 ins.	2.50	20.00			
18 to 24 ins.	3.50	30.00	**WALNUT, Black** (Juglans nigra)		
2 to 3 ft.	4.50	40.00	12 to 18 ins.	3.50	30.00
3 to 4 ft.	6.50	60.00	18 to 24 ins.	4.50	40.00
4 to 5 ft.	12.00	....			
HONEY LOCUST, Thornless			**MOUNTAIN ASH** (European)		
6 to 12 ins.	1.65	14.00	9 to 12 ins.	8.50	80.00
12 to 18 ins.	2.50	22.50	12 to 18 ins.	12.50	100.00

SHERMAN NURSERY CO.
Charles City, Iowa

JEWELL PROPAGATORS

Hardy Northern-Grown Stock
at WHOLESALE
JEWELL NURSERIES, Inc.
Write for Price List. **Box 457, LAKE CITY, MINN.**

ST. LOUIS ELECTIONS

The Landscape and Nurserymen's Association of Greater St. Louis, Inc., held its annual meeting at Roncaro's restaurant, Glendale, Mo., Monday evening, October 14. President Robert W. Jentsch welcomed 43 members and guests, who were on hand to start the evening with a steak dinner.

At the election of officers, the following men were chosen to lead the association during 1958: President, Harold A. Dieckgraeffe, Dee Equipment Co., St. Anns, Mo.; first vice-president, Leland Nollau, Nollau Nursery, Belleville, Ill.; second vice-president, Carl B. Giebel, Carl Giebel Landscape Architects & Nurserymen, Clayton, Mo.; secretary, Fred Larson, Webster Groves, Mo., and treasurer, William F. Ott, Manchester, Mo. Governors elected to 3-year terms were: Goswin Gern, Gern Nursery, Affton, Mo., and F. J. Haberthier, Haberthier Tree Service, Creve Coeur, Mo.

Three new members of the group, whose applications for membership were accepted at the meeting, are Emil R. Keller, Lemay; Ray Caldwell, Robertson, and Ray Bader, Pine Lawn Nursery, St. Louis.

Thomas Nichols, chairman of the fall harvest show at the Missouri Botanical Garden, St. Louis, reported on the successful installation of the association's garden display and thanked the members for their help in furnishing plant material and labor. Kenneth Kirk, chairman of the bylaws committee, then reported on the activities of his committee in revising the present bylaws. Several changes have already been made to handle a growing membership.

Highlight of the evening was an illustrated talk by Dr. Posnette, of the East Malling experiment station, Kent, England. Dr. Posnette has been lecturing extensively in Missouri on research being done at East Malling in the production of virus-free understock for fruit trees. Although the subject of the talk was highly scientific, it was extremely interesting and gave the members an insight into the research carried on at East Malling.

Before the group adjourned,

QUALITY STOCK

Andorra Juniper	Each
Outdoor plants in full sun. 6 to 10 ins.	$0.06
Von Ehron Juniper Outdoor plants in full sun. 8 to 10 ins.	.06
Spreading Japanese Yew 6 to 8-in. bands	.20
Burk Juniper, upright Outdoor plants in full sun. 6 to 10 ins., bare-root	.14
Pfitzer Juniper 6 to 8 ins., bare-root	.08
Forsythia Lynwood Gold Outdoor plants in full sun. 6 to 10 ins.	.06
Forsythia Spring Glory Outdoor plants in full sun. 6 to 10 ins.	.04
Euonymus coloratus Outdoor plants in full sun. 8 to 10 ins.	.03½
Euonymus patens Small or large-leaved. Outdoor plants in full sun. 8 to 10 ins.	.04

See classified ad under lining-out stock for other items. Less than 300, total order, add two cents per plant.

McININCH GREENHOUSES
ST. JOSEPH, MO.

ORNAMENTALS
TREES SHRUBS
EVERGREENS

Wholesale growers of a
general assortment for
the best landscape plantings.

BRYANT'S NURSERIES
Princeton, Illinois

FORSYTHIA

	Per 100	Per 1000
Lynwood Gold		
18 to 24 ins.	$40.00	$350.00
2 to 3 ft.	50.00	450.00
Spring Glory		
18 to 24 ins.	35.00	300.00
2 to 3 ft.	45.00	350.00

Write for complete trade list.

KINGWOOD NURSERIES
Mentor, O.

America's Finest
ROSES • BULBS • PLANTS
and SHRUBS
WRITE FOR LIST MENTOR, OHIO
Wayside Gardens

PLANT PROPAGATION, by Mahlstede and Haber. New techniques of propagation. 413 p. (1957) **$7.50.**
American Nurseryman Chicago 4.

George H. Pring, superintendent of the Missouri Botanical Garden, gave a brief account of his visit to Hawaii to attend the recent international orchid conference.

E. F. Larson, Sec'y.

FIRM DRAWS F. T. C. ORDER

An initial decision issued October 17 by a federal trade commission hearing examiner would prohibit Michigan Bulb Co., 845 Ottawa street, Grand Rapids, Mich., from misrepresenting the terms of sale and the kinds and quality of its merchandise. The press relase from the commission's office of information states that the decision is not a final one and may be appealed, stayed or docketed for review.

According to the release, Robert L. Piper, the examiner, ruled the company had falsely advertised its nursery stock offers in newspapers, magazines, radio broadcasts, mail circulars and other promotional materials. A typical newspaper advertisement of the firm was cited as follows:

"42 gorgeous rose plants, flowering shrubs and hedge plants. All a $26.77 value, special, $2.98. Yes, this is the biggest flower bargain in America today!

"Sturdy and field grown . . . each plant is at least 1 foot high. Many have already bloomed . . ."

The truth is, the examiner said, this offer did not include any true rose plants, and not all the plants shipped to the customer are field-grown, one foot high, hardy and tested for condition by a nursery expert under proper standards.

Refund Statement Criticized

On another offer the company had claimed: "If not thoroughly pleased, return for full purchase price refund." Ruling this guarantee is misleading and deceptive, the examiner said the company's policy is to send replacement certificates to dissatisfied customers unless they specifically request a cash refund and return the nursery stock. The examiner declared that a full price refund does not mean a replacement certificate. The guarantee is further misleading, the examiner said, in that it does not specifically advise the customer to return the merchandise.

Two allegations of the commission's complaint, issued November 17, 1955, were dismissed.

Named in the examiner's order are the company's officers, Gerald C., Forrest and Louis Laug. Also joined is Holland Bulb Co., the partnership of the latter two in-

SELLING OUT

Thousands of grafted, upright Junipers to be sold at 20 to 30 per cent below wholesale.

Special prices on row and block sales.

If you are in the market for first-quality Junipers, write, call or visit our nursery for prices.

JUNIPER
Canaerti Burki
Hilli (Dundee) Schotti
Keteleeri Scopulorum
Virginiana glauca

ARBORVITAE
Berckmans Golden Excelsa

**SUTTON NURSERY &
LANDSCAPE CO., INC.**
Box 542, Independence, Kan.
Phones: 420 or 620
(3 miles east on U. S. 160)

Better Liners of the Better Kinds
Good Roots • Good Tops
Eastern Shore Grown
•
DECIDUOUS LINERS
Write for Price List
JACQUES L. LEGENDRE, Pres.
GULF STREAM NURSERY INC
WACHAPREAGUE, VIRGINIA

HOLLAND BULBS
PERENNIAL SPECIALTIES
VERONA GARDENS
Th. Grevers
Wholesale Grower
Rt. 5, BATTLE CREEK, MICH.

HYPERICUM HIDCOTE

	Per 100
Rooted cuttings	$ 8.00
Potted liners	15.00
1-yr. field, XX	25.00

GILSON GARDENS
Perry, Ohio

Stock that is hardy.
WHOLESALE
SUMMIT NURSERIES, INC.
STILLWATER, MINN.

dividuals. Michigan Bulb Co., the examiner said, has annual sales exceeding $1,000,000 and also does business as Dutch Bulb Importers, Rapid Specialties Co. and Flower of the Month.

OPEN INDIANA CENTER

The Varsity Landscape Nursery, Lafayette, Ind., held open house recently to celebrate the completion of a new lath house and a combination garden shop and office, according to the Indiana Nursery News, the publication of the Indiana Nurserymen's Association. The nursery held the event in the evening, utilizing its installation of over 100 flood lights.

The new building was constructed in order to concentrate the nursery's shopping area and to increase efficiency in selling. Several storage barns on the premises are used to store auxiliary stock and keep the inventory in the garden shop from becoming unwieldy. Sliding glass doors enclose the reception area of the shop. A large alcove is walled with pegboard. Gusseted shelf brackets support both glass and plywood shelving on adjustable slotted standards. Two revolving racks are in service for the display of fall bulbs. Three marble-topped island units display sacked fertilizer and garden chemicals.

The attractive new lath house, 96x164 feet, is of pole construction, covered with snow fencing, and shelters 25 stock display bins, each 11x33 feet. About three-eighths of the total area consists of limestone chip paths and roadways, facilitating the circulation of customers and nursery trucks through the lath house. A total of 510 cubic yards of humus was used in the display bins.

During the winter, work will begin on the first of two areas, roofed with fiber glass, connecting the garden shop and the lath house. Another will be installed to cover a stone apron on the east side of the house for the display of potted shrubs and roses. The parking area was almost doubled in size, and two carloads of peat moss have been stacked for easy loading at periphery locations.

George Blush, president of the nursery firm, feels that the new facilities, eliminating the conducted tours through field stock that were formerly necessary for making sales, will enable his selling staff to take care of many more customers per hour. All items are labeled and priced to eliminate time-consuming

TREE LIST FOR FALL AND SPRING
1957 - 58

	Per 100	Per 1000	Per 1000 for 10,000 or more
Riga Scotch Pine			
* (2-0), 6 to 10 ins.	$10.00	$ 36.00	$35.00
* (2-0), 4 to 8 ins.	7.50	26.00	24.00
* (2-0), 3 to 6 ins.	6.00	24.00	22.00
(2-0), 2 to 4 ins.	5.00	16.00	14.00
(2-1), 3 to 8 ins.	10.00	45.00	45.00
***Austrian Pine**			
(2-0), 3 to 6 ins.	6.00	24.00	22.00
Douglas Fir			
6 to 10 ins., XX	15.00	90.00	....
* (2-0), 4 to 8 ins.	6.00	28.00	26.00
Colorado Blue Spruce			
* (3-0), 4 to 8 ins.	9.00	45.00	42.50
(3-0), 2 to 4 ins.	6.00	26.00	24.00
Black Hills Spruce			
* (3-0), 4 to 8 ins.	8.00	40.00	37.50
(3-0), 2 to 4 ins.	6.00	25.00	23.00
6 to 10 ins., X	20.00	135.00	....
White Spruce			
* (3-0), 5 to 10 ins.	8.00	45.00	40.00
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Norway Spruce			
(3-0), 5 to 10 ins.	8.00	45.00	40.00
(3-0), 3 to 5 ins.	6.00	25.00	23.00
Mugho Pine			
4 to 6 ins., X	25.00	150.00	....
Taxus cuspidata capitata from seed, sheared			
8 to 12 ins., XX	80.00	....	....
White Birch			
2 to 4 ft., XX	75.00	....	....

*Write for price on 50,000 or more.

TERMS: Cash with order, please, or 1/3 deposit, balance before shipment. 50 at 100 rate, 500 at 1000 rate, all seedlings sold in multiples of 50, all transplants sold in multiples of 10. Minimum order $25.00. Packing charges included in price of trees.

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Alatus	
2 to 3 ft., B&B	$1.75
3 to 4 ft., B&B	2.25
4 to 5 ft., B&B	3.50
Compactus	
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
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Fall, 1957, Spring, 1958, Delivery

	Per 100	Per 1000
Buxus sempervirens		
1-yr. pots, 4 to 6 ins.	$20.00	$175.00
2-yr. pots, 4 to 6 ins.	22.50	200.00
2-yr. pots, 6 to 8 ins.	25.00	225.00
3-yr. pots, 6 to 8 ins.	27.50	250.00
Buxus koreana		
1-yr. pots, 3 to 4 ins.	22.50	200.00
2-yr. pots, 3 to 5 ins.	25.00	225.00
3-yr. pots, 3 to 6 ins.	27.50	250.00
Hedera helix (Baltic Ivy), ground cover		
1-yr. pots, 12 to 18-in. stems	12.00	115.00
2-yr. pots, 12 to 18-in. stems	15.00	125.00
Juniper, Pfitzer		
2-yr. pots, 8 to 10 ins.	22.50	200.00
3-yr. pots, 8 to 10 ins.	27.50	250.00
3-yr. TT., 9 to 12 ins.	45.00	425.00
Mahonia aquifolium, seedlings, 1956		
1-yr. pots, 3 to 5 ins.	22.50	200.00
1-yr. pots, 3 to 6 ins.	25.00	225.00
Pyracantha royaleana, red berries		
1-yr. pots, 8 to 10 ins.	17.50	150.00
2-yr. pots, bushy	22.50	200.00
(Fine for canning.)		
Pyracantha coccinea pauciflora, red berries		
1-yr. pots, 8 to 10 ins.	20.50	175.00
2-yr. pots, bushy	22.50	200.00
Pyracantha coccinea lalandi, orange berries		
1-yr. pots, 6 to 9 ins.	22.50	200.00
Taxus cuspidata		
1-yr. pots, 6 to 8 ins.	20.00	185.00
2-yr. pots. 6 to 8 ins.	22.50	200.00
3-yr. pots, 6 to 10 ins.	25.00	225.00
3-yr. TT., light	37.50	.....
3-yr., TT., heavy	45.00	.....
SEEDLINGS—SHUMARD OAK		
Sown in field fall, 1955. Dark red leaves.		
Quercus shumardi		
9 to 12 ins., S.	10.00	.....
12 to 15 ins., S.	12.00	.....
15 to 18 ins., S.	15.00	.....
18 to 24 ins., S.	20.00	.....
24 to 30 ins., S.	25.00	.....
2 to 3 ft., whips	30.00	.....
2 to 3 ft., br.	35.00	.....

Order these NOW for spring, 1958, delivery. Packing free.

FLORAL GARDENS NURSERY

Eaton, O.

DWARF HEDGING

	Per 100	Per 1000
Blue-leaved Arctic Willow (Salix purpurea nana)		
9 to 12 ins.	$12.00	$100.00
12 to 15 ins.	15.00	125.00
15 to 18 ins. and up	20.00	185.00
Teucrium chamaedrys		
Top grade, field	18.00	150.00
Medium grade, field	12.00	100.00
Viburnum opulus nanum		
2-yr., field	50.00	450.00
3-yr.	65.00	600.00

Write for complete trade list.

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Philadelphus Minnesota Snowflake
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questions and to relieve personnel of having to memorize long price lists.

ELM SUBSTITUTES

[Continued from page 11]

The shallow but fibrous root system is wide spreading and heavy feeding, but the tree is not difficult to transplant. It might be well, however, not to plant some shrubs in competition with it—rhododendrons and enkianthus, for instance. Maintaining turf beneath its branches seems to be no problem, however.

Growth and Foliage

The tree is a rather quick grower during its early years and then seems to taper off. Even the foliage is often more vigorous during the early years if the tree has been properly planted. The compound leaves, such as those shown in illustration G, are so large that they are taken for small branches. The whole section of foliage shown in the illustration is one leaf, which is separated into segments or leaflets, of which there are five to 13 (11 is the average). Each leaflet, as can be seen, has a tapering tip. Not many trees have oppositely arranged pinnately compound leaves that resemble those of the Amur cork tree. About the only ones that do are members of the genus fraxinus (ash), but their leaflets have much coarser teeth than the leaflets of the cork tree. The latter has teeth so fine that they often pass unnoticed.

A possible objection to the Amur cork tree is the unattractive appearance of the clusters of black fruit during the fall. They do not provide a decorative appearance, but detract from the tree's landscape value, particularly after the leaves have dropped. The fruits are drupes that are first green and then turn black. There is a distinct odor to these fruits, especially during the early stages. The odor is that of turpentine and seems more noticeable when the fruits are crushed or bruised in any way. Some people object to this; others do not. It is a matter of what one likes and dislikes. One way to prevent the plant from fruiting is to grow and purchase male trees, since it is dioecious.

The thick, light gray bark that is deeply fissured on older trees is one of the more attractive characteristics of the tree. It is so different from the run-of-the-mill trees that people are readily attracted to it because of this corklike bark.

Even though Phellodendron amu-

BROAD-LEAVED EVERGREENS

Choice landscape material at attractive prices.

Buxus sempervirens, 12 to 15 ins. to 2 to 2½ ft.
Elaeagnus fruitlandi, 1½ to 2 ft. to 4 to 5 ft.
Euonymus kiautschovicus, 1½ to 2 ft. to 4 to 5 ft.
Ilex cassine, 3 to 4 ft. to 5 to 6 ft.
Ilex convexa (bullata), 12 to 15 ins. to 18 to 24 ins.
Ilex rotundifolia, 15 to 18 ins. to 2 to 2½ ft.
Ilex opaca howardi, 2 to 3 ft. to 4 to 5 ft.
Ilex vomitoria, 2 to 3 ft.
Jasminum floridum, 1½ to 2 ft. to 3 to 4 ft.
Ligustrum japonicum, 2 to 3 ft. to 4 to 5 ft.
Ligustrum lucidum, 1½ to 2 ft. to 2½ to 3 ft.
Ligustrum lucidum repandens, 1½ to 2 ft. to 2½ to 3 ft.
Mahonia japonica bealei, 12 to 18 ins. to 2 to 2½ ft.
Nandina domestica, 15 to 18 ins. to 2 to 2½ ft.
Osmanthus fortunei, 1½ to 2 ft. to 2 to 2½ ft.
Osmanthus ilicifolius, 1½ to 2 ft. to 2 to 2½ ft.

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Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings.
$12.00 per 100, $100.00 per 1000.
These are very heavy stock ready for direct field planting.

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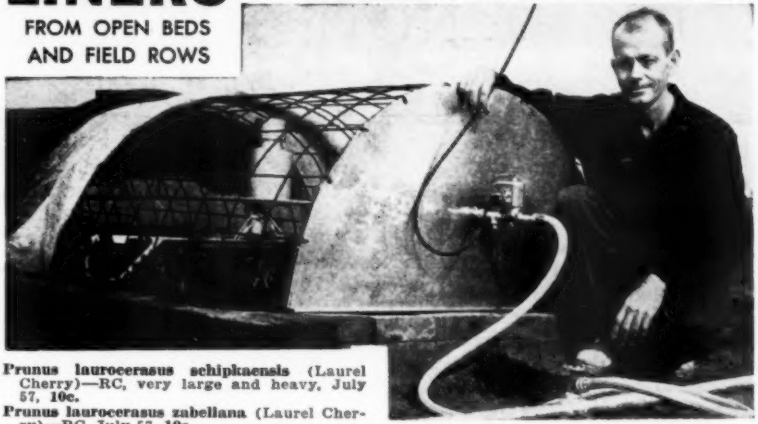

LINERS

FROM OPEN BEDS AND FIELD ROWS

Foremost in intermittent mist propagation.
Originator of the Electronic Leaf Control.

All of our cuttings are rooted in soil. As soon as they root, they usually begin to make some new growth—often a great deal—and always begin to develop a hard, secondary root system. After a few months many are about equal to light bed-grown liners, although we continue to call them rooted cuttings.

So that you can judge what we are offering, we give the month in which the cuttings were rooted. That is, "RC June 57" would mean cuttings rooted during June, 1957, which have been growing in the soil in which they were rooted ever since. The amount of growth and the development of the root system will be in proportion to the time that has elapsed since they were rooted.

All plants go through our normally severe winters outside, so you can depend on receiving thoroughly hardened and dormant liners. However, spring does come early here. Some varieties will show activity by March 10 and nearly all begin some growth by the first of April, so please order early.

BG—bed-grown
RC—rooted cuttings
FG—field-grown
Mo., Yr.—date rooted
T—transplanted
S—seedling

Berberis Crimson Pigmy—BG, liners, 6 to 8 ins., **25c.**

Berberis julianae—The hardiest evergreen barberry—RC, July 57, **9c.**

Berberis julianae nana—Compact growth, darker green leaf, often called "BPI"—RC, July 57, **10c.**

Berberis mentorensis—RC, July 57, **7c**; per 1000, **6c**; BG, 9 to 12 ins., **12c.**

Chaenomeles (Flowering Quince)—Both on own root from softwood cuttings. No suckering from these plants.
- **Nivalis**—The best of the white-flowering quinces—BG, liners, 6 to 12 ins., **18c**; 12 to 18 ins., **24c.**
- **Texas Scarlet**—The best for canning because of the profuse red flowers on a compact low plant—BG, liners, 6 to 12 ins., **20c.**

Cherry Laurel—See **Prunus.**

Cydonia—See **Chaenomeles.**

Euonymus alatus compactus — large, heavily rooted cuttings, rooted in soil since June 57, **8c**; FG, T, 8 to 12 ins., **20c.**

Ilex cornuta burfordi—RC, July 57, heavy, 6 to 12 leaves, **8c.**

Ilex cornuta femina—RC, July 57, heavy 6 to 12 leaves, **8c.**

Ilex crenata convexa (bullata)—RC, July 57, **7c.**

Ilex crenata hetzi—RC, July 57, **8c.**

Ilex crenata rotundifolia—RC, Aug. 57, **7c.**

Ilex opaca (American Holly—Northern types—No southern hybrids. Guaranteed female and guaranteed male from cuttings, BG, liners, 4 to 6 ins., **17½c**; 15 to 30 ins., for canning in gallon cans, mostly single stem, some lightly branched, **50c. Ilex opaca** shipped only on March 1, 1958 (because that is the very best time to move American Holly). Also see plantainer can list.

Laurocerasus—See **Prunus.**

Mahonia bealei—1-yr., seedlings, growing in outside beds, just right for potting, **6c**; BG, 2-yr., 4 to 6 ins., **11c**; 6 to 9 ins., **18c.**

Prunus laurocerasus schipkaensis (Laurel Cherry)—RC, very large and heavy, July 57, **10c.**

Prunus laurocerasus zabeliana (Laurel Cherry)—RC, July 57, **10c.**

Prunus laurocerasus officinalis (English Laurel)—RC, July 57, **10c.**

Thuja orientalis aurea nana (Berckmans Golden Arborvitae)—RC, Feb. 57, growing in soil ever since. Most could go directly to the field under irrigation or put in 2½ to 3-in. pot, **10c.**

VIBURNUMS—All are on their own roots from softwood cuttings. They should be shipped by the first part of March and will keep perfectly if heeled in until planting time (the earlier the better).

Viburnum burkwoodi — FG, T, somewhat light, 12 to 18 ins., **40c**; 18 to 24 ins., **60c.**

Viburnum carlesi—RC, June 57, **15c.**

Viburnum chenaulti—More shapely and attractive than burkwoodi, nearly evergreen, should soon supplant burkwoodi—RC, June 57, 8 to 12 ins. and up, **15c**; FG, a little light, BR, 12 to 18 ins., **50c**; 18 to 24 ins., **85c.**

Viburnum juddi—Better than carlesi. A more compact plant with more attractive leaves, not subject to leaf spot, flowers really pink! — RC, June 57, **15c**; BG, liners, not branched, 12 to 18 ins., **30c**; field-grown, excellent plants, 15 to 18 ins., **90c**; 18 to 24 ins., **$1.25.**

Viburnum macrocephalum sterile
Viburnum tomentosum mariesi
Viburnum rhytidophylloides
All three sold out for this year.

Viburnum rhytidophyllum (Leather-leaved Viburnum)—RC, July 57, **12c**; BG, liners, not branched, 18 to 24 ins., **25c.**

Weigela vaniceki—BG, single cane, 18 to 30 ins., **17½c.**

IN PLANTAINER CANS

Ilex opaca—Male and female, from cuttings, sex guaranteed.

Viburnum juddi—A luxury item for your discriminating trade.

Juniperus hetzi—Good full plants.

Ilex vomitoria—With red berries.

Osmanthus americana—Uniform plants from cuttings.

And only a few of these rare ones

Viburnum macrocephalum sterile (Chinese Snowball)—The flowers are often 8 ins. in diameter!

Ilex latifolia—Dark green leaves up to 6 ins. long, red berries.

Viburnum rhytidophylloides — Similar to rhytidophyllum but is hardier.

Ilex pedunculosa—Long stalk holly.

Truck pickup only—No shipping on cans. These plants are unusually well-grown and must be seen to be appreciated. We can pick out fancy lots of even size for you at very attractive prices.

Our stock block now furnishes more cuttings than we can use. If your customers want unusual plants of the best varieties in finished sizes maybe we can find them there. Let's look whenever you are here. FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

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VIBURNUM JUDDI

- Better Than Carlesi
- Better Grower
- Better Foliage
- Leaf-Spot Resistant

Feld-Grown, Transplanted
Heavily Branched

	Per 10	Per 100
15 to 18 ins.	$10.00	$ 90.00
18 to 24 ins.	13.50	125.00

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rense is often listed as having oppositely arranged leaf scars or leaves, this is not completely true. On some stems they are not exactly opposite, particularly on vigorous young branches. The leaf scars, shown in illustration I, are interesting in that they are large and horseshoe shaped, with a hard orange-brown bud in the middle. If one looks at one of these scars long enough, he may fancy that the design he observes suggests the face of an animal of some sort.

Street and Home Plantings

The tree has been successfully used in street planting, but it needs room to spread its upper branches. Even though the Amur cork tree eventually attains a height of only about 40 feet, it should not be used on narrow streets, where its broad head and coarse appearance would be unsuitable. As a tree in the center panel of a boulevard it is quite satisfactory, male trees being preferable for this use.

The arching branches suggest that this is a good tree to sit beneath, and their spread provides enough shade for a group of people. The shade cast is not heavy but satisfactory for summer comfort. The late appearance of the leaves permits the growth of early-flowering herbaceous plants and bulbs under the tree. The tree should be headed high if it is to be used as a canopy for outdoor living or if underplantings are to be made.

Phellodendron amurense is a welcome entry from northern China that has made itself at home in many sections of the United States. Both this tree and Zelkova serrata are worth more than just a few minutes of consideration. They are worthy of being planted.

APPROVAL was granted recently by local zoning authorities for the establishment of a wholesale and retail nursery southwest of Stanton, Calif.

PLANT NOTES HERE AND THERE

By C. W. Wood

Two Native Lobelias

Another year of watching the cardinal flower, Lobelia cardinalis, put on its show reminds me that this worthy native is not sufficiently appreciated by gardeners, nor by nurserymen. Here in northern Michigan it is considered one of the harbingers of fall, though it usually commences its brilliant performance in early August (this year I saw the first one August 4). And a brilliant performance it is, with a succession of bright scarlet flowers for close to two months. A fact not generally known to gardeners is that the plant does not need the constantly wet situations which it seems to choose in nature. In the absence of constant moisture, it should have, however, a soil full of humus and considerable shade. Even then it is not likely to attain the three feet to which it grows in the wild, but it can be just as showy and just as attractive.

Usually flowering a little later than the cardinal flower, the large blue lobelia, L. siphilitica, is another useful garden plant. It, too, favors wet ground in nature, occurring often along streams and in bogs, where it grows to three feet in height, with dark blue flowers for a long time in summer. There is a white-flowered form of siphilitica that is quite handsome and might sell well if it were offered. There are many hybrids between the different kinds, some of them really beautiful plants. They are not well known in this country, and the ones carrying much blood of the red-flowered Mexican L. fulgens are not hardy in the north, but what I have seen of the hardy ones so far indicates much promise for the future.

Siberian Iris for Local Sales

I quote below from a letter sent recently by an Illinois reader: "Several years ago you recommended Siberian iris varieties to neighborhood nurserymen who found the going rough in the tall, bearded kinds. Because of the rapid introduction of new kinds, many of them mediocre and some absolutely worthless, and my own inability to keep accurate tab on the new kinds as they came on the market, I had given up iris plants almost entirely, except for two or three species. I made a modest venture in Siberians and found them profitable sellers. Now I keep about six of the newer ones in stock and sell all that I propagate. I think many other neighborhood growers would find them valuable property."

Campanula Thyrsoides

I wish that I could write enthusiastically about the yellow European bellflower, Campanula thyrsoides, for the Wisconsin reader who has asked about it, but I find enthusiasm difficult on this subject, for reasons to be pointed out later. First, though, it is not hardy enough to be permanent here in northern Michigan, and I doubt that it would be hardy in central Wisconsin. To its credit is the fact that it is easily grown in the well-drained soil of the rock garden, in either sun or part shade, with water at the roots during long dry periods. On the debit side is its rather poor color, greenish yellow, and its small size (one inch long) of flower. Bailey called it interesting, but not showy. He does not, nor does any other writer that I have consulted, mention its only good reason for asking space in the garden—a pleasing fragrance, somewhat like the subtle scent of the grape flower.

As it grew here under frame culture, it attained a height of about 10 inches, with a rosette of hairy leaves and flowers in a terminal spike. I notice that the books say that it comes from limestone country; so it might be unsatisfactory in acid soil regions.

Oriental Popies

An Ohio correspondent writes that he will "have space in a cool house for Oriental poppies this winter if there is any good way to handle them indoors so as to produce potted plants to sell next spring." He wants to commence with seeds and grow them as cheaply as possible to sell at competitive prices through fruit and roadside markets.

There is a good way to handle the

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	Per 100	Per 1000
6 to 7 ft., 7/8-in. cal. and up	**$50.00**	. . . .
5 to 6 ft., 11/16-in. cal.	**45.00**	**$400.00**
4 to 5 ft., 9/16-in. cal.	**40.00**	**350.00**
3 to 4 ft., 7/16-in. cal.	**30.00**	**250.00**
3 to 4 ft., 5/16 to 7/16-in. cal.	**20.00**	**175.00**

Over 250,000 budded to the following varieties: **Elberta, Early Elberta, Redhaven, Golden Jubilee, Halehaven, Dixired, Dixigem, Belle of Georgia, Red Cap, Triogem, Coronet** and **Keystone.**

Special quotations on 10,000 and up.

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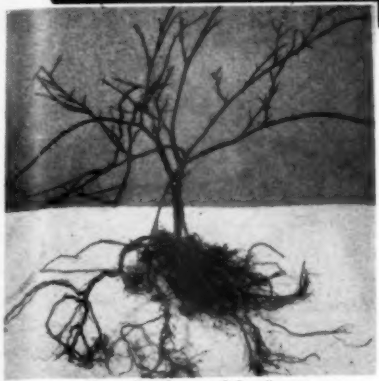

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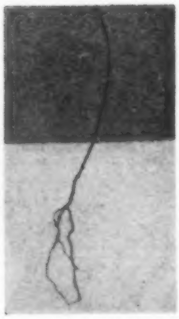

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50 to 100	42½c	each
100 to 500	40c	each
500 to 1000	35c	each
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- ● Top Sail
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- ● Bronze

WHILE THE SUPPLY LASTS, we offer our fine two-year-old heavy Scuppernongs . . . **ALL** No. I plants field-grown.

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Lovely, solid, golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.

	Per 100	Per 1000
Potted liners	$18.00	$150.00
Rooted cuttings	10.00	80.00

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HARDY PLANTS

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Perennials a Specialty.

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plant for the purpose outlined by the correspondent. Not only is it good; it is also easy to follow and almost sure to produce fine plants. I know a florist who has followed the procedure for years. He plants seeds about the middle part of December, using deep flats of light soil. These are kept in a 45-degree temperature and are watered only when necessary by placing them in a tray of water until the soil surface is moist. Even though poppies need to be handled while quite small, winter growth is so slow that transplanting from the seedbed will not be necessary until late January or early February, when they may be put singly in 2-inch pots (rose pots, if available) of ordinary potting soil. It they are transferred later, when growth warrants it, into 4-inch pots, they will be attractive large plants ready for selling in May.

Clematis for Cutting

A western New York reader asks if any of the clematis species or hybrids, except C. recta, which he has, are good for cutting. It has been many years since I had any of the clematises under trial, but I distinctly remember the pleasure we had from them.

Aside from the one mentioned by our correspondent, C. recta, its variety mandschurica and C. davidiana, few clematises have found favor with users of cut flowers. Perhaps the best of these is C. recta mandschurica, a superb plant and a splendid cutting flower. Growing to a height of three feet in good, limy soil, it produces an abundance of large, fragrant, white flowers, on long stems during July. Less well known, but almost as useful, are some of the forms of C. davidiana now in commerce. C. d. Profusion, for instance,

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The decision

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EUONYMUS acutus

A good prostrate, rapidly spreading plant with smooth, shiny, dark leaves. Foliage is a deep red during the winter.

2¼" Pot	1-Gal.
.18	.50

EUONYMUS fortunei carrierei

Semi-prostrate growing shrub having heavily veined leaves of deep glistening green.

2¼" Pot
.18

EUONYMUS fortunei Radicans Upright

Semi-upright in growth. Leaves become a deep red in the fall.

2¼" Pot	1-Gal.	2-Gal.
.18	.50	1.50

EUONYMUS japonicus grandifolia

Very large solid green leaves.

2¼" Pot	1-Gal.	2-Gal.	5-Gal.
.15	.50	1.50	1.85

EUONYMUS japonicus microphyllus

Very dwarf shrub with solid green leaves.

2¼" Pot	1-Gal.	2-Gal.
.18	.50	1.50

EUONYMUS radicans argentia variegata

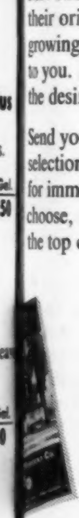
Low growing shrub with variegated lea
Excellent for ground cover.

2¼" Pot	1-Gal.
.18	.50

EUONYMUS patens Newport
(E. kiautschovica)

Compact grower. Foliage remains on the pl
practically all year.

2¼" Pot	1-Gal.	2-Gal.
.18	.50	1.50



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MORE VARIETIES
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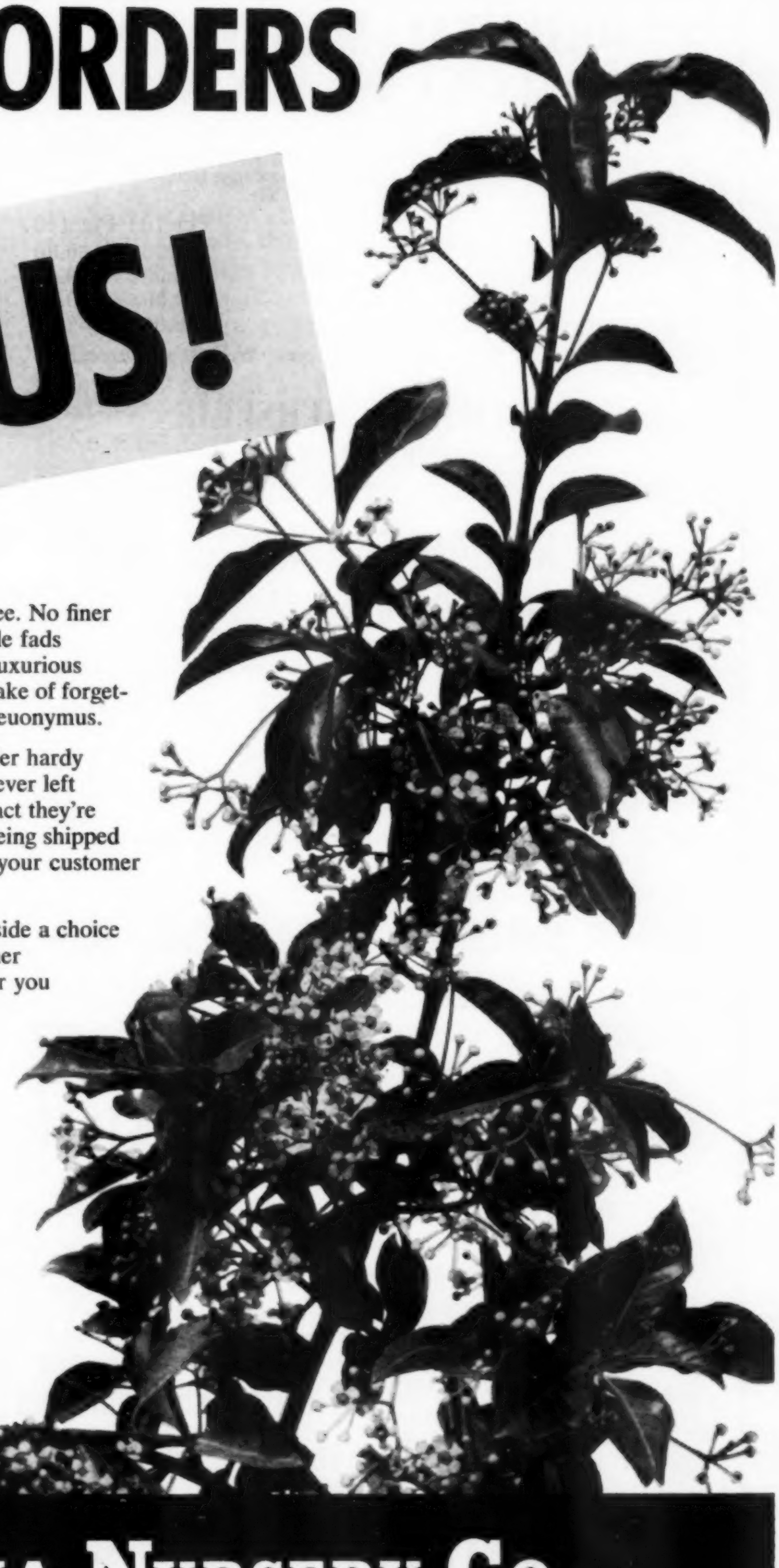

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	Per 10	Per 100
2 to 3 ft., field-grown, budded	$17.50	$160.00
3 to 4 ft., field-grown, budded	22.50	200.00
4 to 5 ft., field-grown, budded	30.00	250.00
5 to 6 ft., field-grown, budded	40.00	350.00

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White Dogwood Crape Myrtle Grapevines

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CHASE NURSERY CO., INC.
Chase, Ala.

is a 2-foot, or slightly taller, plant, which earns its name by producing a profusion of deep blue tubes, fragrant and long lasting, during August and part of September, when outdoor flowers are not always plentiful.

It is not likely that many cut flower growers will ever use the large-flowered species and hybrids to any extent for cutting; certainly, few do so now. Curious growers and those looking for something out of the ordinary will, however, no doubt be interested to know that many of the kinds possess merit for the purpose. I say this despite the fact that some authorities on cutting material have reported that the flowers are of little value for cutting, because they do not last well after being cut. Taking a cue from Ernest Markham, an eminent authority on clematis, I found by trial that not only the smaller-flowered hybrids, which are generally thought of as being derivatives of C. viticella (these are the ones generally used for cutting, when any are used at all), cut well; I also found that the large-flowered kinds, most of which are assigned to C. lanuginosa, do equally well. One thing noted in my trials was that a little old wood should be taken when cutting flowers from the woody clematises to insure the blooms' remaining open for several days.

Uses of Violets

It is fortunate that I was at one time so interested in the economic uses of plants that I collected a large number of notes on the subject. When a letter came recently asking for some old-time uses of sweet violets, all I had to do was refer to the collection to find the quotation below, which covers the subject in a succinct, complete way. It was written by the late Eleanour Sinclair Rohde and was published, I think, in the old Gardening Illustrated:

"Young violet leaves were not only used in salads, but also dipped in batter, fried and served with orange juice. A dainty and delicious vegetarian dish! This dish was a popular one in the 17th century, and no less an authority than John Evelyn describes it as 'one of the most agreeable of all herbaceous dishes.' Violet vinegar is made by filling a jar half full of violets (but not too tightly packed) and then filling it with boiling hot, white wine vinegar. Even in Victorian days violet tablets were made. The flowers were steeped in the juice of three large lemons for two hours and then strained, and the juice, with a pint of water and a pound of sugar, boiled to the candy stage. Violet syrup is made as follows: Steep two pounds of violet flowers in five pints of water for 24 hours. Then strain and add sugar at the rate of a pound of sugar to each pint of liquid, and boil to the consistency of syrup. Violet milk was used by the fastidious for their complexions. It was made by steeping a large handful of violet flowers in milk."

Boxwood

I had a letter from a Virginia correspondent last spring that included an item that may be of value to growers who have access to a supply of boxwood. It is, in part, as follows:

For some years I have had the care of several gardens, all of which feature boxwood, and during that time I have come to value the cut branches as good florists' greens during the winter. After cutting the branches in late fall or early winter, I tie them in bunches and heel them in, in sand or sandy soil, in a protected frame. Before putting on the sash, I give them a thorough watering and then pack dry leaves between the bunches, completely covering the foliage. The bunches are then accessible whenever needed, which is often, after florists in surrounding cities hear that I have cut box for sale during the winter months.

Mertensia Paniculata

To the correspondent (and others) who asked for a plant to use in dense shade under trees, where practically nothing will grow except a few early spring bulbs, which go dormant soon after flowering, I should like to recommend Mertensia paniculata, of northern North America.

As everyone knows who has had to plant in shade under trees, it is one of the most irritating problems a gardener has to face, because so many shade-loving plants fail under the conditions offered by these situations. Some trees, especially the shallow rooters, have a debilitating effect on the surrounding soil, and nothing the gardener can do alters the fact. I long thought such situations were quite hopeless until I saw, years ago, plantings of Mertensia paniculata under trees in some of the Chicago parks.

This lungwort is quite different from the usual conception of mertensia, based on the most popular member of the genus, M. virginica. Although it does not possess the beauty of foliage and flower of the latter, it is valuable for the purpose under consideration. It will supply a thick, green ground cover from spring until fall in the otherwise impossible places which one nearly al-

TOP QUALITY

CORNUS FLORIDA RUBRA (Pink-Flowering Dogwood), from 12 to 18 ins. to 6 to 8 ft.

CORNUS FLORIDA ALBA PLENA (Double-Flowering White Dogwood), from 12 to 18 ins. to 3 to 4 ft.

PRUNUS PERSICA (Flowering Peach), pink, red and white, 3 to 4 and 4 to 5 ft.

PRUNUS NEWPORT, PISSARDI AND THUNDERCLOUD (Purple-Leaved Plum), 3 to 4 and 4 to 5 ft.

SALIX BABYLONICA (Weeping Willow), 3 to 4, 4 to 5, 5 to 6 and 6 to 8 ft.

TREE WISTARIA, Purple, 2 to 3 ft.

BETULA ALBA (White Birch), 6 to 8 and 8 to 10 ft.

MALUS (Flowering Crab Apple), varieties as follows:

Alameda, single, purple-rose flowers, 6 to 8 and 8 to 10 ft.
Almey, bright crimson blossoms, 2 to 3, 3 to 4 and 4 to 5 ft.
Arrow, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.
Atrosanguinea, carmine flowers, 2 to 3 and 3 to 4 ft.
Baccata, single, fragrant white flowers, 2 to 3 and 3 to 4 ft.
Dolgo, single, fragrant white blossoms, 2 to 3, 3 to 4 and 4 to 5 ft.
Eleyi, single, purplish-red flowers, 3 to 4, 4 to 5, 6 to 8 and 8 to 10 ft.
Floribunda, single, fragrant, deep pink flowers, 2 to 3, 3 to 4 and 4 to 5 ft.
Floribunda purpurea, single, purplish-red flowers, 2 to 3, 3 to 4 and 6 to 8 ft.
Geneva, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.
Gloriosa, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.
Hopa, carmine buds and flowers, 2 to 3 through 8 to 10 ft.
Makamik, single, China-rose flowers, 2 to 3, 3 to 4 and 4 to 5 ft.
Red Silver, single, purplish-red flowers, 5 to 6, 6 to 8 and 8 to 10 ft.
Scheideckeri, double, pale pink flowers, 3 to 4, 4 to 5, 5 to 6, 6 to 8 and 8 to 10 ft.

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"Cherokee Chief," patent pending (Red-Flowering Dogwood)
This is truly **a red** Red-Flowering Dogwood (Cornus florida rubra), beautiful shade of deep red. Blooms at an early age. Vigorous grower.

	Each Per 10 to 29	Each Per 30 to 100
6 to 12 ins., B. R.	$0.85	$0.75
12 to 18 ins., B. R.	1.10	1.00
18 to 24 ins., B. R.	1.40	1.25

——Other Specialty Items——

Pink-Flowering Dogwood
America's favorite flowering tree. Deep pink, single flowers in spring.

	Each Per 10	Each Per 100
6 to 12 ins., B. R.	.60	.50
12 to 18 ins., B. R.	1.00	.75
18 to 24 ins., B. R.	1.25	1.00
24 to 30 ins., B. R.	1.50	1.25
30 to 36 ins., B. R.	1.75	1.50

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Flowering Crab Apple
Varieties:

Almey
Outstanding new variety. Carmen buds and flowers. Blooms at early age. Resistant to fire blight.

2 to 3 ft., whips	.60	.50
3 to 4 ft., whips	.85	.75
4 to 5 ft., whips	1.00	.90
3 to 4 ft., br.	.95	.85
4 to 5 ft., br.	1.10	1.00
5 to 6 ft., br.	1.35	1.25

Atrosanguinea, carmine buds and flowers.
Coronaria, pink fading to white.
Coronaria Charlotte, double, pink flowers.
Eleyi, purplish-red flowers.
Floribunda, pink fading to white.
Hopa, carmine buds and flowers.
Scheideckeri, semidouble, pink flowers.

2 to 3 ft., whips	.50	.40
3 to 4 ft., whips	.60	.50
4 to 5 ft., whips	.70	.65
3 to 4 ft., br.	.70	.60
4 to 5 ft., br.	.85	.75
5 to 6 ft., br.	1.10	1.00

Viburnum juddi
Better than Carlesi. Not subject to leaf spot. Delicate pink flowers. Very fragrant.

12 to 15 ins., B. R.	1.00	.75
15 to 18 ins., B. R.	1.25	1.00
18 to 24 ins, B. R.	2.00	1.50
24 to 30 ins., B. R.	2.25	2.00

Weigela vaniceki
Bright crimson flowers in spring and again in autumn. Extremely hardy.

12 to 18 ins., B. R.	.40	.35
18 to 24 ins., B. R.	.50	.45
2 to 3 ft., B. R.	.60	.55
3 to 4 ft., B. R.	.75	.70

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ways runs into in a densely shaded garden. And it will do that with no trouble on the gardener's part, except for a light shearing soon after the flowering season is past.

The floras say that the plant grows to three feet in height, but it is not likely to get that tall when it is grown under trees and given no special attention. The tallest plants I remember in any of my plantings were about two feet tall. They were grown in a deep, woodsy soil in a maple copse. M. paniculata produces a tuft of pubescent leaves, persisting from spring until fall, and bears its blue-purple flowers during July and August. It is easily grown from seeds sown as soon as they are ripe. It grows naturally from the shores of Lake Superior northward.

Iris Ochroleuca

Although Iris ochroleuca has long been known in gardens, often as I. orientalis, it seems to have escaped the notice of many moderns, much to the loss of gardeners and users of cut flowers. The confusion which long existed and still exists regarding the official name of this species of apogon (beardless) iris may account for the absence of the name ochroleuca from much of the literature, for one sees I. orientalis, one of the synonyms for the plant, mentioned. Be that as it may, the general recognition of ochroleuca as the valid name and the further recognition of the plant's value as a garden plant and cutting subject should assure its place in modern gardens.

It is a native of western Asia Minor, I am told, occurring in rather moist places. It is not surprising, then, to find it doing best under cultivation when given plenty of moisture during its growing and blooming seasons. Gardeners like to grow it along stream banks and around pools. A stream is not necessary for its comfort, however; so one does not have to deny himself its beauty if he has a soil rich in humus and is prepared to give it a little water during long dry periods.

If one is working with a plant from Asia Minor, he will, if he lives in the north, expect it to show some tenderness to cold. Gardeners, therefore, are likely to be pleasantly surprised to find I. ochroleuca quite hardy (even at latitude 45 degrees north), especially if it is planted where it will have a snow blanket throughout the winter. I suspect, however, that its ability to withstand cold would largely depend upon the original source of the plants. A plant descended from one that grew at the southern limits of its native range might have a hard time getting

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	100	1000
Pear (Pyrus calleryana)		
No. 1	**$5.50**	**$50.00**
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Plum (Prunus americana)		
1/4-in. up	**4.30**	**38.00**
No. 1	**4.10**	**36.00**
No. 2	**3.30**	**28.00**
No. 3	**2.50**	**20.00**

Write or phone for prices on large quantities.

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ROSE

through a north American winter; on the other hand, a plant from the northern part of its range should be entirely hardy.

I. ochroleuca is apparently variable in nature, especially in size and form of flower. The only one generally available in this country avoids the puckered appearance of some that were formerly used in gardens. But it does not have the stately habit of the form known as variety gigantea, which, under the ideal conditions of rich soil, full sun and an abundance of moisture, may reach a height of five or six feet, with three or four tiers of flowers and two or three large flowers to each tier. So far as I know, the flower is constant in having white falls, with a golden yellow patch at the base of each, and white standards. It is beautiful, ranking among the largest flowers in the genus, and of much value for cutting.

TEXAS ROSE FESTIVAL

[Continued from page 9]

the rose moon while the cat played the fiddle and the dish ran away with the spoon. Dancing sugarplums and gingerbread boys were found in a candyland of rosebuds. For "Rub-a-Dub-Dub," three men floated on a pool in their rose tub.

Huge pink and rose-colored foil roses were used to cover the greenhouse supports. Talking Mina birds, parakeets and parrots were in cages hung around the outer edges of the greenhouse which is permanently planted in tropical and semitropical foliage plants. A highlight of the garden, if one part could be said to be any more enchanting than another, was the Bunny Hop Band. A bandstand of green trellis hung with bunches of real carrots held an orchestra of furry, white bunny figurines. The mechanical animals played the "Bunny Hop" on their instruments, while other bunnies danced, patted their paws or moved their little cottontails in time to the music.

Outdoor Municipal Garden

The rose show building overlooked the Municipal Rose Garden where could be seen over 23,000 rosebushes in 396 varieties, each planting being labeled. It is the second-largest municipal rose garden in the United States, the largest being at Columbus, O. All bushes have been donated by Tyler rose nurserymen.

Rosebushes are planted in beds set around formal lawn areas, fountains, pools and against decorative brick walls and plantings of nursery stock. Beds are dug 15 inches deep,

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. . . and that's a lot of guarantee that you will always get quality stock and fast delivery, plus very careful attention to your individual needs and wishes, whether your T.N.C. order is large or small. New accounts cordially welcomed.

J.B. Fitzpatrick
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WE ESPECIALLY RECOMMEND THE FOLLOWING OFFERINGS FOR THEIR QUALITY AND IMMEDIATE AVAILABILITY:

	Per 100
FRUITING MULBERRY Black English, Downing, Hicks, New American	
3 to 4 ft.	$ 35.00
4 to 5 ft.	50.00
5 to 6 ft.	65.00
EUONYMUS patens	
15 to 18 ins., NB	45.00
18 to 24 ins., NB	65.00
18 to 24 ins., B&B	100.00
24 to 30 ins., B&B	125.00
30 to 36 ins., B&B	160.00
AMUR PRIVET, South	
12 to 18 ins.	8.50
18 to 24 ins.	10.00
2 to 3 ft.	15.00
3 to 4 ft.	20.00

	Per 100
BOSTON IVY	
Medium	$ 30.00
No. 1	40.00
CLEMATIS paniculata	
Medium	30.00
No. 1	40.00
GOLDFLAME HONEYSUCKLE	
Medium	30.00
No. 1	40.00
WISTARIA Purple and white	
Medium, grafts	35.00
No. 1, grafts	40.00
WISTARIA, tree Purple and white	
2 to 3 ft., NB	135.00
3 to 4 ft., NB	185.00

Write, wire or call for quantity prices. If you have not done business with us, we invite your inquiries on stock of any kind. Let's start doing business together and BOTH make some new friends!

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SEEDS—PLANTS—BULBS
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with a 6-inch leaf compost of sludge at the bottom and nine inches of sandy soil on top. Mulch consists mostly of pine needles. Bushes are planted in winter and spring. Pelleted commercial fertilizer, either 12-24-12 or 10-20-10, one cup for 30 bushes, is applied in April, June and August. Captan spray is applied once a week at 200 pounds' pressure to prevent black spot, and wettable sulphur is added to the Captan spray during cool weather to combat powdery mildew. Lindane and malathion sprays are applied when needed to eradicate aphis, and Aramite spray is used for red spider mites. A large truck-drawn sprayer which throws a stream 60 feet under 300 pounds' pressure is used.

During the festival, free lectures and showings of color slides about roses were given several times daily in the old rose show building in the garden. Speakers were Dr. E. W. Lyle, pathologist for the Texas Rose Research Foundation; Everett Janne, Consolidated Nurseries, Inc., and George Fisher, Arp Roses, Inc.

Chartered buses left the rose show building every 30 minutes during the day on two tours to rose fields. Routes were marked with arrows so that those so desiring might follow in their own cars. One tour went to the rose display gardens at the Arp Nursery Co. office and then to one of Arp's fields, where refreshments were served. The other tour went to the Breedlove Nursery and passed 12 rose fields. Varieties in the fields were labeled for indentification.

Rose Floats in Parade

A mile-long parade down Front street into Rose Stadium was seen Saturday morning, October 19, by over 100,000 persons lining the street and a capacity crowd of 15,000 in the stadium. There were 34 colorfully uniformed marching bands providing music for the parade, 354 horseback riders, marching units, dozens of cavorting clowns and a bevy of pretty young girls riding on lavish rose-trimmed floats to make the parade one of the best in festival history.

Festival dignitaries and distinguished guests rode in brand-new convertibles at the head of the parade and were ushered into special boxes in the stadium to review the rest of the parade. Those representing the nursery industry included John Fraser III, Huntsville, Ala., president, American Association of Nurserymen, with Mrs. Fraser; Richard P. White, Washington, D. C., executive vice-president, A. A. N., with Mrs. White; Svend

NOVEMBER SPECIALS
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FLOWERING CRAB APPLES

	Each
Almey, new! Fiery-crimson.	
18 to 24 ins., whips	50c
2 to 3 ft., whips	75c
Eleyi, pink flowers, purple foliage.	
Hopa, bronze foliage, pink flowers.	
18 to 24 ins., whips	25c
2 to 3 ft., whips	35c
Sundog, pyramidal type, carmine flowers.	
12 to 18 ins., whips	20c
18 to 24 ins., whips	25c

Supply limited on Flowering Crab Apples. Order early in lots of 10 or 25.

FLOWERING PLUM
June Buds

	Per 10	Per 100
Prunus Thundercloud (New Purple Plum)		
12 to 18 ins.	$ 3.00	$ 25.00
2 to 3 ft.	3.50	30.00
3 to 4 ft.	4.50	40.00
Prunus Newport (Purple-leaved Plum)		
18 to 24 ins.	2.50	20.00
2 to 3 ft.	3.00	25.00
3 to 4 ft.	4.00	35.00

FLOWERING PEACH
June Buds

Double Red		
Double Pink		
12 to 18 ins.	2.50	20.00
18 to 24 ins.	3.00	25.00
2 to 3 ft.	3.50	30.00
Redleaf Peach		
18 to 24 ins.	2.50	20.00
2 to 3 ft.	3.00	25.00
3 to 4 ft.	4.00	35.00
Double Red Weeping		
12 to 18 ins.	3.00	20.00
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The float section was headed by the entry of the Tyler Chamber of Commerce featuring a fountain of roses and naming Tyler the city of roses. Next came five floats of various civic organizations.

All-America Rose Selections, Inc., featured the three 1958 A. A. R. S. award winners, White Knight, a white hybrid tea; Fusilier, a brilliant orange-red floribunda, and Gold Cup, a golden yellow floribunda, on a float similar to the one the organization entered in the Pasadena Tournament of Roses parade last New Year's day. The large White Knight roses formed a bed supporting a gold cup under a golden archway, and at either end of the archway were pedestals hung with the yellow and orange-red roses and greenery. The float was ridden by Miss Shirley House, daughter of Tyler nurseryman, B. L. House, and Mrs. House, and also by little Betty Dean, daughter of Mr. and Mrs. L. A. Dean. Miss House served as duchess of the American Association of Nurserymen during the festival.

The Tyler Rose Growers' float featured a temple of love made of yellow rose petals, gold columns entwined with pale pink roses, a gold balustrade and formal rose-trimmed organdy trees. The float was ridden by Betty Jane Wilson, daughter of rose nurseryman Huett Wilson and Mrs. Wilson, Jacksonville, Tex. She was the rose growers' duchess for the festival.

Next came the queen's section, headed by last year's queen and followed by the floats ridden by the ladies-in-waiting and the duchesses of the rose queen's court; these floats depicted moods in music. Climax of the parade was the queen's float, on which Queen Kay Howard rode on a magic carpet of white roses trimmed in gold, atop four projecting levels of white, rimmed with red roses.

Coronation Pageant

A fanciful pink palace of roses, designed in Spanish baroque architecture, was the stage setting for the pageant in the Municipal Auditorium the evenings of October 17 and

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20 White Birch, 2-stem clump, 15 to 20 ft.	63.00
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HEAVY SHEARED SPECIMENS	
50 Juniper, Canaert, 5 to 6 ft.	8.50
100 Juniper, Canaert, 6 to 7 ft.	9.50
50 Juniper, Canaert, 7 to 8 ft.	12.00
HEAVY BERRIED	
25 Holly (Ilex opaca), 8 to 10 ft.	65.00
50 Holly (Ilex opaca), 10 to 12 ft.	85.00
HEAVY SHEARED SPECIMENS	
50 Hemlock, 6 to 7 ft.	20.00
50 Hemlock, 7 to 8 ft.	24.00
25 Dwarf Alberta Spruce, 4½ to 5 ft.	35.00
10 Dwarf Alberta Spruce, 5 to 5½ ft.	40.00
20 Dwarf Japanese Blood-leaved Maple, 3x4 ft.	20.00
10 Dwarf Japanese Blood-leaved Maple, 4x5 ft.	25.00
Magnolia grandiflora	
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18, when Kay Howard was formally crowned queen of the 1957 Texas Rose Festival. The palace reception hall was done primarily in pink. Tall fanlike glittering white trees stood just outside the center of each ornate archway that overlooked a formal garden done in misty tones of blue and green, with stars twinkling overhead.

The theme of the pageant was "Reflections in Music," in which the Chancellor of the Realm of Roses, portrayed by Watson Wise, Tyler oil man who was president of this year's festival association, conducted a search for the perfect melody for the rose queen.

First, in a "medley of beauty," were presented the four princesses and six ladies-in-waiting of the queen's court, pretty Tyler friends of the queen, dressed by pairs in reverse gowns of rose, green and blue and each carrying an arm bouquet of White Knight roses, which the queen had chosen for her special rose this year. Then entered, one at a time, the 30 duchesses of the court, pretty girls representing other Texas cities, as well as several other states, Cuba and Mexico. Each was gowned to represent the heroine of an opera, operetta or musical comedy. Betty Jane Wilson, the Texas rose growers' duchess, portrayed Sophie in "Der Rosenkavalier," and Shirley House, American Association of Nurserymen duchess, was Katherine in "The Vagabond King."

Hyman Charninsky's orchestra from Dallas played for the over-all production, and Walter Hendl, director of the Dallas Symphony Orchestra, was guest soloist at the piano. As each girl made her entrance he played tunes from the musical production which she represented.

The climax was the crowning of the queen, who was magnificently dressed in a gown and train of all-white lace and velvet embroidered with beads and sequins. Two little girls in pale pink gowns were the scepter and crown bearers. The pageant concluded with entertainment for the queen consisting of piano selections played by Mr. Hendl and dance numbers performed by the team of Landre and Verne.

Distinguished Guests' Luncheons

The men's luncheon in the ballroom of the Carlton hotel, Friday noon, October 19, was served to an overflow crowd of about 400. Among those seated at the head table were Svend Poulsen, Richard P. White, L. A. Dean, David Stump, B. R.

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Fullingim, C. J. Lauden and John Fraser III. A feature of the program was the presentation of the Arp award to Mr. White by Mr. Dean. The award, in the form of a large silver bowl on which the name of each recipient is engraved, is made annually by the Texas Association of Nurserymen to the man deemed by the association to have done outstanding service to the Texas nursery industry. The bowl was given by the Arp Nursery Co. Presentation is usually made at the annual Texas Association of Nurserymen convention in August, but Mr. White was unable to attend this year. Speaker at the luncheon was United States Senator Lyndon B. Johnson, of Texas, who discussed the nation's guided missile program. Ronald Reagan, movie and telivision star, was master of ceremonies.

Decorations were designed and executed by ladies of two Tyler garden clubs. In front of the podium was a huge arrangement of 12 dozen Mirandy roses against a fan of palm fronds set in a silver container. The arrangement was done by Mrs. Hugh R. Mills. Smaller massed arrangements of the same variety were set at either side on the speaker's table. The backdrop was a huge pegboard map in turquoise cut in the outline of a map of the United States. The state of Texas was covered by yellow roses, and crimson satin streamers led from the home states of the distinguished guests to Tyler, which was marked by a cluster of crimson roses. The long luncheon tables were decorated down the centers with English ivy interspersed at short intervals with nosegays of roses in various hues.

Ladies Hear Fashion Talk

"Flowers in Fashion on the European Scene" was the subject of Mrs. Joe Lambert, Dallas, Tex., who spoke to a capacity crowd of 300 at the ladies' festival luncheon in the Woman's building. Her husband is owner of Lambert Gardens, Dallas. Mrs. Lambert, who has conducted fashion tours in Europe for several years, made comparisons of many flowers to current fashion shapes and colors.

Among the distinguished guests introduced were Mrs. John Fraser III, Mrs. Richard P. White, Mrs. David Stump, Mrs. B. R. Fullingim, Mrs. L. A. Dean and Mrs. Fred Walters.

Decorations were under the direction of Mr. and Mrs. Jack Greer, of Judge Florist, Tyler. The speaker's table and a large U-shaped table in the lounge were decorated with gold

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3 to 4 ft.	1.50
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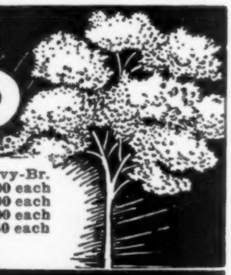

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epergnes and bowls holding large arrangements of Peace roses. The smaller luncheon tables were appointed with gold goblets filled with Peace roses. Greenery and Peace roses were garlanded down the long tables. A fountain effect was made with Peace roses and green foliage plants in the foyer. A console table featured a gold figurine holding a large bowl of Peace roses, with trailing garlands of Peace roses and leather-leaved ferns sprayed gold. A massive arrangement of Peace roses was on the mantel.

Coronation Balls

Most lavish of the festival social events was, as always, the Queen's Coronation Ball, sponsored by members of the Order of the Rose, Friday night, October 18, in American Legion Hall, with attendance by invitation only. Guests entered through a garden bordered by white brick walls covered with pink roses and green garlands. The walls and ceiling of the ballroom were completely covered with silver paper and hung with sconces of huge pink foil roses. Suspended from the ceiling were ornate crystal chandeliers with pink tapers. Guests' tables were covered with silver cloths. The platform for the orchestra was framed by gold lattice trimmed with pink roses, and a gold gate at the front was flanked by pyramidal-shaped trees of pink roses in gold urns. At either side were the tables for the queen, her court and their escorts. Table cloths were shocking pink satin, and the chairs were upholstered in the same shade of velvet. Gold epergnes of pink roses and glittered green grapes were on the tables, with tall pink tapers in candelabra at either end.

At the far end of the ballroom was a large carousel topped with a canopy of pink roses and otherwise made of jewel-studded pink velvet with a fringe of pale pink marabou. The queen and the ladies of her court made their entrance through the carousel, each being introduced by the master of ceremonies, Ronald Reagan, of the movies and television. Each girl wore a bouffant ball gown. The queen was presented with a traditional sheaf of red roses, and the other girls carried nosegays of pink roses. A floor show by Mr. Reagan, singer Don Cherry and Ted Weems and his orchestra was then presented.

The adjoining room was converted to a garden scene arranged for dancing. Tiny lights twinkled like stars through the foliage overhead. White wrought-iron garden furniture was used along with white marble garden statuary. The or-

XUM

chestra played from a patio bordered by a boxwood hedge interspersed with white roses. Grecian columns at the sides were entwined with garlands and twinkling lights, and in the background were glittered figures of the muses. Breakfast was served from buffet tables at one end of the garden.

The following night the same settings were used for the more informal Queen's ball, which also honored the rose growers.

Queen's Tea in Rose Garden

Largest of the festival social events was the queen's tea from 3 to 5 p. m., Friday, October 18, held in one section of the Municipal Rose Garden. Given by the queen's parents, Mr. and Mrs. E. L. Howard, in honor of their daughter, invitations were issued to 2,500 guests.

Only white roses were used to decorate the setting for the tea. Trellises at the garden entrance were garlanded in greenery and roses. Large rose arrangements were placed throughout the garden in urns. Hundreds of roses floated on a circular garden pool around a fountain. A fountain effect of roses and greenery was the background for the receiving line, and a garden cart filled with roses was placed where the ladies of the queen's court stood. Furniture was of white wrought iron. Tea tables were topped with umbrellas spreading over arrangements of roses and leather-leaved fern, and the punch bowls were garlanded with roses and smilax.

Giant Roman numerals, XX, standing for the 20th annual Texas Rose Festival, were the backdrop on the stage in Rose Stadium, where a big free variety show was presented to a near-capacity crowd of over 10,000 persons, who ignored the chilly 50-degree night temperature to enjoy the show. A special section of choice seats was reserved for rose growers who contributed blooms for festival decorations. Ronald Reagan was master of ceremonies; Ted Weems and his orchestra provided the music. Special acts were presented by Penny Metropulous and Don Cherry, vocalists, and Phil Maraquin, comedian.

The rose show continued through Sunday night, and the festival was brought to a formal close October 2, with a vesper service.

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CALIFORNIA ARBORISTS

The October 16 meeting of the California Association of Arborists was held in the offices of the San Mateo county commissioner of agriculture at Redwood City. No program was provided, it being the plan of the program committee to devote the time usually allotted to speakers to a general discussion on the association.

After President George Hood, of the Palo Alto park department, called the meeting to order and the reports of the committees and the secretary had been read, discussion began on plans for future meetings. Suggestions were asked on methods of increasing attendance at the meetings, and it was voted almost unanimously that less time be devoted to formal talks by outside speakers and more time be devoted to informal talks around the meeting table by all members of the group. Interest in such informal discussions was immediately demonstrated when John Davis, Davis Tree Service, Menlo Park, who suggested the more informal meetings, added a topic that he thought would be of interest to the membership—spontaneous discussion on the point lasted for more than 20 minutes.

The topic of such immediate interest had to do with the preservation of live oak trees on the San Francisco peninsula. It appears that as large estates are broken up into 1-acre and ½-acre subdivisions, considerable grading is necessary. In the grading process, large amounts of soil are piled around the base of the live oak trees. It was stated that these fills sometimes reach a depth of three feet and are commonly 12 to 18 inches deep. The trees are not provided with natural protection against soil pests—diseases as well as insects—so far above the ground, and, as a result, many trees are dying. The loss of the trees is a double tragedy. Not only are trees that have provided shade for 100 years or more being destroyed, but entire landscape plans built around such trees are in jeopardy. Several members of the group reported the recommendations they make if they are consulted before such grading is done and their methods of overcoming the problem if they are called in later. It was also reported that such fills often damage the trees because the roots are buried too far below their normal position.

A number of other meeting suggestions were made, and it was concluded that for each of the next two meetings the program committee

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Cytisus purgans (Provence Broom) Hardy dwarf, compact globe, very fine. *12 to 18 ins., twice transplanted	22.00	176.00

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shall choose — lottery-style — the names of three association members who shall then be notified that they are to lead a general discussion at the next meeting. It will be their responsibility to provide topics of general interest.

A nominating committee was then appointed to present at the next meeting a slate of officers to serve for the coming year. The committee is composed of Millard Blair, Mountain View arborist; John Davis, and Walter B. Balch, Los Altos.

W. B. B.

CALIFORNIA NOTES

A group of the bay area nurserymen were the recent guests of Ray Hartman, of the Leonard Coates Nursery, San Jose. They met at the headquarters offices and were taken by bus to the branch growing grounds of the nursery at Morgan

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Hill, Santa Cruz and Saratoga. The Saratoga branch is still in the process of being built. It occupies about five acres of rough land, part of which has now been leveled, where a greenhouse 30x200 feet will be constructed for the propagating of hard-to-start ornamentals. The house and its equipment are of the most modern design and will be under the direction of R. L. Byerly, who was recently added to the staff of the nursery organization. Before coming into the northern part of the state he was associated with a soil-testing and orchard consultant service in Orange county, had been an independent greenhouse and horticultural consultant on his own in San Diego county and had grown avocado and citrus on a commercial basis.

Charles Perkins, with E. S. Boerner, head of research of Jackson & Perkins, Newark, N. Y., visited the Livermore breeding grounds of the firm and, with Clarence Perkins, manager of the local office, and D. H. Morey, in charge of research in the west, has completed a survey of the new varieties which the firm is testing in California. October 26, Clarence Perkins entertained at his home at Centerville with a preview of the flowers selected as most promising.

Robert Gibbs, formerly a member of the teaching staff of the Alameda elementary school system, has bought the stock and good will of the Palo Alto branch of the Grimshaw Nurseries and will operate the business as the Grimshaw-Fiesta Nursery.

The Nurserymen's Exchange, which sells bulbs and ornamental nursery plants and supplies on the west coast and through the southern states, has moved to its new quarters at 475 Sixth street, near the new San Francisco Flower Terminal. The firm reports that its bulb storage facilities are now among the largest and most modern in the country and all garden supplies can now be stored under one roof in the new quarters.

The bay area alumni of the Cal Poly Institute, San Luis Obispo, have formed an association whose purpose is to cement the bonds of common interests among the workers in the area's flower and ornamental nursery projects. They will hold monthly meetings and discuss matters of common interest, and they have set up a placement service. The purpose of the placement service is to keep a file of all of the members with pertinent information

[Continued on page 81]

OREGON DIRECTORS MEET

The Oregon Association of Nurserymen held a board of directors' meeting the evening of October 23 at the Portland Wholesale Nursery Co. quarters, Portland. Paul Van Allen, president, called the meeting principally to discuss plans for the O. A. N. winter convention, January 30 and 31, 1958. Also present was the convention committee. Convention plans call for a complete trade fair and a 2-day program. A breakfast is planned for presidents and secretaries of the various chapters. Something unusual is being planned for entertainment.

Robert Walker, James Doty and W. P. Nuffer recently went to Corvallis, to talk to Dr. Al Roberts at Oregon State College concerning the second annual Oregon short course, to be held in February.

Three new members were accepted into the O. A. N. William H. Anderson, nurseryman, Gresham, Ore., and L. W. Aylsworth, nurseryman, Gresham, Ore., were named active members, and the Gresham Branch, the First National Bank of Portland, Gresham, became an associate member.

Appointed to the nominating committee by President Van Allen were Frank Schmidt, Jr., chairman; Reed Vollstedt, Reed's Garden Center, Eugene, Ore.; Peter Nuffer; Vernon Marshall, Marshall Florist & Nursery, Medford, and Roy Smith, Valley View Nursery, Beaverton.

President Van Allen announced that he had appointed Wayne Melott, Carlton Nursery, Forest Grove, to represent the association at the field hearing on extension of coverage of the fair labor standards act that was scheduled to be held at Portland November 6. The association had also taken other action to prepare itself for the hearing. Preceding the appointment of Mr. Melott, a preliminary meeting to discuss the matter was held by President Van Allen and Avery Steinmetz, Portland Wholesale Nursery Co.; Bert Miller, Milton Nursery, Milton-Freewater, and Wayne Melott.

OREGON CHAPTER NEWS

Nearly 50 were in attendance at the Sunset chapter meeting of the Oregon Association of Nurserymen, held at Hillsboro, October 21. Among those heard from during the evening was President Paul Van Allen of the O. A. N., who talked about the market development and publicity committee of the American Association of Nurserymen, of which he is a member. He urged nursery-

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men to help with the highway landscaping program.

Wayne Melott, Carlton Nursery, Forest Grove, Ore., a member of the state committee that is seeking a site for a new experiment station in the Portland metropolitan area, said a few words about this and then presented Sam Rich, Rich & Sons Nursery, Hillsboro, Ore., who is on the Washington county committee seeking a site. The station is to be located in Washington, Clackamas or Multnomah county. Mr. Rich explained that some financing of the purchase price of the land will be necessary. Two possible Washington county sites have been found, he said.

In charge of the meeting was the president of the chapter, Roy Smith, Valley View Nursery, Beaverton. James Doty, Doty & Doerner, Portland, secretary of the chapter, showed the group the new charter and the framed chapter presidential certificate, both of which were presented to President Smith for the current year.

Robert Walker, Holgate Nursery, Portland, president of the Rose City chapter of the O. A. N., was also present at the Sunset chapter meeting, and he urged the group to join with the Rose City chapter in an effort to do something about the landscaping at the Portland information center.

Con Harmon, California Spray Chemical Corp., showed the company's film, "Solid Gold." Afterward he talked to the group for a few moments on merchandising and display.

The Clackamas chapter of the O. A. N. held a board meeting September 24. One of the chief subjects of the evening was the planning of a county-wide meeting for all nurserymen in an effort to build up the chapter membership. Invitations were issued, as a result, to nearly 200 nurserymen to attend a meeting at the West Linn Inn, West Linn, October 29. Planned for entertainment were the showing of the California Spray Chemical Corp. film, "Solid Gold," and a discussion on the business end of nursery operation.

The Rose City chapter of the O. A. N. met recently at the Country Kitchen, Portland, with 40 in attendance. President Robert Walker, Holgate Nursery, led the meeting. A panel discussion was held, with Melvin Conklin, agricultural economics department, Oregon State College, acting as moderator. The purpose of the panel was to determine from the nurserymen present just what questions should be used on a consumer

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questionnaire in view of the recent information obtained on the statewide industry survey made by Mr. Conklin. C. H. P.

PANZER FIRM SOLD

Mr. and Mrs. Joe Klupenger, Klupenger Nursery, Portland, have purchased O. F. Panzer Wholesale Florist, one of the largest pot plant growing firms on the Pacific coast. Both the nursery and florists' trades were suprised at the announcement made October 17. Mr. Klupenger took possession as of October 1, and the name of the Panzer firm has been changed to Klupenger Greenhouses, Wholesale Plant Growers. Mr. Klupenger will continue to operate his other firm as Klupenger Nursery.

The Panzer firm, started in 1909, has been in continuous operation under family management since that time. Manager of the firm since 1943 has been Otto E. Panzer, who has been operating the business for the Panzer estate. Al Panzer, brother of Otto, will be manager of the Klupenger Greenhouses, and the same personnel will continue, according to Joe Klupenger.

Mr. Klupenger also announced that the pot plant firm will continue the same policies and will continue to grow potted plants for retail florists and plants for other greenhouse growers to force. The Panzer range consisted of 75,000 square feet of glass at Portland, plus 15,000 square feet at Gresham and nine and one-half acres of land, all of which became a part of the Klupenger deal. With the 40,000 square feet of glass being operated by Mr. Klupenger before, the business will have 130,000 square feet of glass.

The Panzer estate has sold all business rights, stock, etc., to Mr. Klupenger and will lease the greenhouses to him. C. H. P.

OPENS PATIO EXHIBIT

A major merchandising project aimed at stimulating trade in patio plantings and supplies was initiated recently by the Green Thumb Nursery, Lancaster, Calif., with the opening of four permanent patio exhibits on the nursery grounds. Each one different in design and color, the patios are planned so that they may be duplicated by the do-it-yourself hobbyist. Desert colors predominate in the fully planted displays, which will be completely rearranged about every 90 days, according to C. M. McNally, owner.

OPENED recently by Al Tanner was Tanner's Nursery, Hemet, Calif.

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Larger sizes made to order.	
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CEDAR SPRAY	
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Lots of berries, per lb.	.90
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Forms for December 15 issue will close Friday, November 29.

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12 to 15 ins., B&B	1.40
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8 to 10 ins.	30.00	15 to 18 ins.	105.00
10 to 12 ins.	40.00	18 to 24 ins.	130.00

Boudoir, Othello, Mary Ann, obtusa amoena, Herbert, Hino-Crimson, Corsage.

6 to 8 ins.	$70.00	12 to 15 ins.	$120.00
8 to 10 ins.	80.00	15 to 18 ins.	145.00
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Rhododendrons, from red parents, budded.

15 to 18 ins.	$300.00	18 to 24 ins.	$400.00

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RED-LEAVED BARBERRY
(Atropurpurea) 2-yr. seedlings.

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9 to 12 ins., branched	9.00	80.00
12 to 18 ins., branched	12.00	110.00
18 to 24 ins., branched	16.00	140.00

RED-LEAVED BARBERRY
(Atropurpurea) 4-yr. transplants.

Heavy stock.	Per 100	Per 1000
9 to 12 ins.	$24.00	$200.00
12 to 18 ins.	28.00	240.00
18 to 24 ins.	32.00	280.00
2 to 2½ ft.	36.00	320.00

GREEN BARBERRY
(Thunbergi) 4-yr. transplants.

Heavy stock.	Per 100	Per 1000
9 to 12 ins.	$20.00	$160.00
12 to 18 ins.	24.00	200.00
18 to 24 ins.	28.00	240.00

Our red Barberry is one of the finest strains in the U. S. A.

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

RED-LEAVED BARBERRY
Berberis Thunbergi Atropurpurea.
Heavily rooted transplants.
9 to 12 ins., 20c.
12 to 18 ins., 25c.
18 to 24 ins., 30c.
THE COOK PLACE
Dock Rd. Madison, O.

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads

BERRY PLANTS

RED RASPBERRIES.

	No. 1 suckers Per 1000	No. 1 transpl. Per 1000
Latham, Newburgh, Taylor	$55.00	$65.00
Indian Summer, Durham, Milton, Willamette	60.00	70.00
Chief, Sunrise, St. Regis	50.00	60.00
September, Amber Yellow	70.00	80.00

BLACK RASPBERRIES
Cumberland, Bristol, No. 1 tips, $45.00 per 1000

PURPLE RASPBERRIES

Sodus, No. 1 tips	$ 50.00
No. 1 transplants	100.00

Stock can be shipped any time during winter or early spring. List of other offerings upon request.

CONGDON'S WHOLESALE NURSERY
North Collins, N. Y.

BLUEBERRIES

	Per 10	Per 100
3-yr., 12 to 18 ins.	$6.00	$50.00
4-yr., 18 to 24 ins.	7.50	65.00

Atlantic, Burlington, Jersey, Pemberton, Stanley, Weymouth.

WAYNESBORO NURSERIES
Waynesboro, Va.

RASPBERRY & STRAWBERRY PLANTS
For fall or next spring delivery.
Latest and best varieties, 50 in all.
Write for free catalog and wholesale prices.
WALTER K. MORSS & SON
Bradford, Mass.

LATHAM RASPBERRY PLANTS.
Fall and spring delivery.
Write for prices.
CHAPMAN'S BERRY FARM
East Leroy, Mich.

BULBS AND TUBERS

HOLLAND-GROWN BULBS

DARWIN TULIPS, first size, 11 to 12 cm., 5c each, $4.00 per 100 on one variety: Jubilee (blue), Wm. Pitt (red), Pride of Haarlem (deep rose), Yellow Giant (yellow), Princess Elizabeth (rose), Wm. Copland (lavender), Queen of Night (blue-black), Bartigon (dark red), Clara Butt (pink).

PARROT TULIPS, 7½c each, $6.00 per 100: Blue Parrot (blue), Orange Favorite (orange), Sunshine (bright yellow), Red Champion (red), Black Parrot (blue-black).

REMBRANDT TULIPS, 7½c each, $6.00 per 100: Cordell Hull (variegated white and red).

TULIPA FOSTERIANA, 7½c each, $6.00 per 100: Red Emperor (large scarlet).

COTTAGE TULIPS, 7½c each, $6.00 per 100: G. W. Leak (crimson and orange), Carrara (white), Marjorie Bowen (yellow edged scarlet).

BREEDER TULIPS, 5c each: Dillenburg (orange-scarlet).

TRIUMPH TULIPS, 5c each: Kansas (white).

CROCUS, blooming size, 7 to 8 cm., 4c each, $3.00 per 100: King of the Blues, King of the Whites.

MUSCARI (Grape Hyacinth), 2c each.

SCILLA (Camp., mixed), 2½c each.

SNOWDROPS, 4c each.

GIANT YELLOW TRUMPET DAFFODILS, 6½c each, $6.00 per 100: Golden Harvest, Music Hall, King Alfred, Solario.

DUTCH IRISES, 8 to 9 cm., 5c each: Golden Harvest, White Excelsior, Wedgwood.

HYACINTHS, bedding size, 15 to 16 cm., 10c each: Pink Pearl (deep rose), La Victoire (carmine-red), L'Innocence (pure white), Bismarck (sky-blue), King of the Blues (deep blue), City of Haarlem (golden yellow).

DOMESTIC BULBS

MADONNA LILY, jumbo size, blooms Decoration day, 35c each.

REGAL LILIES, 15c each.

BENTON COUNTY NURSERY CO.
Dept. 5 Rogers, Ark.

TUBEROUS BEGONIAS

Giant double flowering CAMELLIA TYPE.

8 colors.	100	1000
1¼ to 1½-in.	$ 5.50	$ 45.00
1½ to 2-in.	8.50	75.00
2 to 2½-in.	13.50	125.00

Minimum order $5.00.

FIMBRIATA (Carnation type), double flowering, 6 colors.

1¼ to 1½-in.	$ 7.50	$ 60.00
1½ to 2-in.	11.50	100.00
2-in. and up	15.00	140.00

Minimum order $5.00.

PICOTEE (true Camellia type), two-toned rose and white

PENDULA (Hanging Basket type), 5 colors balanced.

1½ to 2-in.	$12.50	$115.00

MULTIFLORA (Lilliput or miniature) (hybrids), copper, red, salmon and yellow.

1¼-in. and up	$12.50	$115.00

Minimum order $5.00.

LOUIS DANK
1170 Broadway New York, N. Y.

FANCY-LEAVED CALADIUMS

The finest of commercial named varieties. Over 75 varieties absolutely free from disease, fully upgraded.

	Per 100	Per 1000
No. 3, ¾ to 1-in.	$ 7.00	$ 60.00
No. 2, 1 to 1½-in.	12.00	110.00
No. 1, 1½ to 2½-in.	18.00	160.00
Jumbo, 2½ to 3½-in.	25.00	230.00
Mammoth, 3½-in. up	37.00	350.00

Minimum order $5.00.

LOUIS DANK
1170 Broadway New York 1, N. Y.

GLOXINIAS

The best commercial varieties.

	Per 100	Per 1000
1¼ to 1½-in.	$ 7.50	$ 65.00
1½ to 2-in.	14.00	130.00
2 to 2½-in.	22.00	195.00
Mammoth, 2½-in. up	30.00	275.00

Minimum order $5.00.

LOUIS DANK
1170 Broadway New York 1, N. Y.

CALLA AETHIOPICA

1¾ to 2-in.	$22.00 per 100
2-in. and up	28.00 per 100

GROWERS EXCHANGE, Farmington 8, Mich.

IMPORTED DUTCH FALL BULBS
Reasonable prices. Send for price list.
F.O.B. Atlantic ports or Highland, Ind.
J. LEEGWATER & SONS
2809 Highway Ave. Highland, Ind.

BUXUS

ENGLISH BOXWOOD, 7-YR.-OLD

8 to 10 ins., B&B	$1.00
10 to 12 ins., B&B	1.25
12 to 14 ins., B&B	1.50
14 to 16 ins., B&B	1.75
3-yr.-old, in gal. can	.50

Terms: Net, F.O.B. nursery.

JOHNSON BOXWOOD NURSERY
R. 1, Highway 220 Randleman, N. C.

CHESTNUTS

CHING CHOW
CHINESE CHESTNUT SEED
(Nanking—Hemming Line P.I. 70314.)
Blight resistant.
From
EASTERN SHORE OF MARYLAND
Write for price list and description.
DR. J. WESLEY EDEL
(Prospect Plantation)
Grasonville, Md.
Phone Queenstown, Md., Taylor 7-4444.

PLANT CHINESE CHESTNUTS NOW
Fresh seed, 35c per lb.
MOUNTVILLE NURSERIES, Mountville, Ga.

CHRYSANTHEMUMS

HARDY CHRYSANTHEMUMS

We are growing a fine assortment of Cushion Mums (field-grown clumps on light sandy soil), suitable for mail order houses that wish to ship an entire clump. Your choice at $90.00 per 1000.

WALTERS GARDENS
Route 2 Zeeland, Mich.

COTONEASTERS

COTONEASTERS

DIVARICATA	
6-in. cans	$1.00
3 ft., heavy, B&B	3.00
HORIZONTALIS	
6-in. cans	1.00
18 to 24 ins., B&B, heavy	2.00
24 to 30 ins., B&B, heavy	3.00
PRAECOX	
6-in. cans	1.50
18 to 24 ins., B&B, heavy	2.50
24 to 30 ins., B&B, heavy	4.00

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

COTONEASTERS

500 Cotoneaster congesta, 3-yr.-old, from 4-in. pots, 60c each. Evergreen, semi-prostrate, moderately dwarf, large red berries. Minimum order 10 plants.

Cash with order, please.
Order now for immediate delivery,
or reserve for spring, 1958.
MAYFAIR NURSERIES
R. D. 2, Nichols, N. Y.

DOGWOODS

CORNUS FLORIDA

Grown from our own seeds. Over 100,000.

10 to 12 ins.	$ 50.00 per 1000
12 to 18 ins.	75.00 per 1000
18 to 24 ins., select heavy	100.00 per 1000
24 to 30 ins., select heavy	150.00 per 1000
3 to 4 ft., B&B	$1.50 each
4 to 5 ft., B&B	2.50 each
5 to 6 ft., B&B	3.50 each
6 to 7 ft., B&B, heavy	7.50 each
7 to 8 ft., B&B, heavy	10.00 each
8 to 10 ft., B&B, heavy	15.00 each
10 to 15 ft., B&B, very heavy	$20.00 to 25.00 each

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

CORNUS FLORIDA	100	1000
1-yr., s., 10 ins. up	$4.00	$35.00
1-yr., s. (understock)	5.00	45.00

PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

EVERGREENS, *Liners*

JUNIPER LINERS

	Each, 100	1000
Glauca hetzi	$0.22	$0.20
Sabina	.22	.20
Sabina Von Ehron, extra large	.22	.20

300 or more, alike or assorted, at 1000 rate.
WILLIS NURSERY CO., OTTAWA, KAN.

SCOTCH PINE
700, 12 to 18 ins., TT, 75c each.
WRITE FOR COMPLETE PRICE LIST.
RICHARDSON NURSERIES
53947 Fir Rd., R. 1 Granger, Ind.
Phone BLackburn 9-1010.

EVERGREENS

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.
Columbus, Miss.

POTTED AND FIELD LINERS

	Per 100	Per 1000
Taxus media Adams		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	$18.00	$170.00
2-yr., 2¼-in. r. pots, 8 to 12 ins.	24.00	220.00
3-yr., TT, 8 to 12 ins.	35.00	325.00
Taxus media andersoni		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
Taxus media browni		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 6 to 10 ins.	25.00	230.00
3-yr., TT, 6 to 12 ins.	35.00	325.00
4-yr., TT, 8 to 12 ins.	50.00	450.00
Taxus cuspidata		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	24.00	220.00
3-yr., TT, 6 to 10 ins.	35.00	325.00
Taxus cuspidata, semi-up		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	25.00	230.00
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus cusp. capitata, sdlg.-grown		
3-yr., 2¼-in. r. pots, 3 to 6 ins.	22.50	200.00
3-yr., 2¼-in. r. pots, 4 to 8 ins.	27.50	250.00
3-yr., 2¼-in. r. pots, 8 to 12 ins.	30.00	275.00
4-yr., TT, 8 to 12 ins.	50.00	450.00
Taxus media Hallaron		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	25.00	180.00
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus media hatfieldi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
Taxus media hatfieldi No. 18		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	25.00	230.00
3-yr., TT, 6 to 10 ins.	35.00	325.00
4-yr., TT, 8 to 12 ins.	50.00	450.00
Taxus media hatfieldi No. 24		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	.....
Taxus media hicksi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	24.00	220.00
3-yr., TT, 6 to 12 ins.	35.00	325.00
Taxus intermedia		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	24.00	220.00
3-yr., TT, 6 to 12 ins.	35.00	325.00
4-yr., TT, 8 to 12 ins.	50.00	450.00
Taxus media kelseyi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 4 to 8 ins.	25.00	.....
Taxus media Moon's columnaris		
2-yr., 2¼-in. r. pots, 6 to 12 ins.	24.00	220.00
4-yr., TT, 8 to 15 ins.	50.00	.....
Taxus media thayeri		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., 2¼-in. r. pots, 6 to 12 ins.	24.00	.....
3-yr. TT, 6 to 12 ins.	35.00	.....
Taxus cusp. vermeuleni		
1-yr., 2¼-in. r. pots, 6 to 10 ins.	20.00	.....
4-yr., TT, 8 to 12 ins.	50.00	.....
Taxus media wardi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	22.50	200.00
2-yr., 2¼-in. r. pots, 4 to 8 ins.	27.50	250.00
3-yr., TT, 6 to 10 ins.	40.00	350.00
Taxus media wellesleyana		
4-yr., TT, 8 to 15 ins.	50.00	.....
Juniperus horizontalis plumosa (Andorra compacta)		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., TT, 6 to 12 ins.	30.00	.....
Juniperus communis depressa aurea		
2-yr., TT, 6 to 12 ins.	30.00	275.00
Juniperus glauca hetzi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 6 to 10 ins.	24.00	220.00
2-yr., TT, 8 to 12 ins.	30.00	275.00
Juniperus fastigiata (Irish)		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., TT, 6 to 12 ins.	30.00	.....
3-yr., TT, 12 to 18 ins.	50.00	.....
Juniperus chin. pfitzeriana		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	22.50	200.00
2-yr., 2¼-in. r. pots, 6 to 10 ins.	26.00	240.00
2-yr., TT, 6 to 12 ins.	30.00	275.00
3-yr., TT, 8 to 12 ins.	40.00	350.00
Juniperus chin. pfitzeriana glauca (Blue)		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	27.50	260.00
2-yr., TT, 8 to 12 ins.	35.00	.....
Juniperus communis suecica (Swedish)		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	.....
Thuja occ. douglasi aurea		
2-yr., TT, 6 to 12 ins.	30.00	.....
3-yr., TT, 12 to 18 ins.	37.50	.....
Thuja occ. elegantissima		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
2-yr., TT, 6 to 12 ins.	30.00	.....
3-yr., TT, 12 to 15 ins.	37.50	350.00
Thuja occ. ellwangeriana (Tom Thumb)		
3-yr., TT, 8 to 12 ins.	37.50	350.00
Thuja occ. globosa		
2-yr., TT, 6 to 8 ins.	30.00	275.00
3-yr., TT, 8 to 12 ins.	37.50	.....
Thuja occ. Hetz's Winter Green		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	20.00	180.00
Thuja occ. pyramidalis		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
3-yr., TT, 8 to 12 ins.	37.50	350.00
Thuja occ. wareana (Siberian)		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., TT, 6 to 8 ins.	30.00	275.00
3-yr., TT, 6 to 12 ins.	37.50	350.00
Thuja occ. woodwardi		
1-yr., 2¼-in. r. pots, 4 to 6 ins.	18.00	170.00
2-yr., TT, 6 to 8 ins.	30.00	275.00
3-yr., TT, 6 to 8 ins.	40.00	350.00
Ilex crenata convexa bullata		
1-yr., 2¼-in. r. pots, 3 to 6 ins.	20.00	180.00
2-yr., 2½-in. r. pots, 3 to 6 ins.	25.00	240.00
2-yr., TT, 6 to 8 ins.	30.00	275.00
Ilex crenata hetzi		
1-yr., 2¼-in. r. pots, 4 to 8 ins.	20.00	180.00
2-yr., 2¼-in. r. pots, 4 to 8 ins.	22.00	200.00
2-yr., TT, 6 to 12 ins.	35.00	320.00
3-yr., TT, 8 to 12 ins.	45.00	400.00
Ilex crenata rotundifolia		
1-yr., 2¼-in. r. pots, 4 to 8 ins.	18.00	170.00
2-yr., 2½-in. r. pots, 4 to 8 ins.	22.00	200.00
2-yr., TT, 6 to 8 ins.	27.50	250.00
2-yr., TT, 8 to 12 ins.	30.00	275.00
3-yr., TT, 12 to 15 ins.	45.00	400.00
Ilex crenata Stokes Pat. 887		
2-yr., 2¼-in. r. pots, 2 to 4 ins.	35.00	300.00
3-yr., 2¼-in. r. pots, 4 to 6 ins.	45.00	400.00
3-yr., TT, 6 to 8 ins.	65.00	600.00
Ilex crenata, dwarf		
2-yr., TT, 6 to 8 ins.	45.00	400.00
3-yr., TT, 8 to 12 ins.	65.00	.....
Ilex glabra		
2-yr., 2¼-in. r. pots, 6 to 10 ins.	22.00	200.00
3-yr., TT, 8 to 12 ins.	40.00	350.00
TAXUS CAPITATA		
2-yr. seedlings, 3 to 6 ins.	10.00	80.00
3-yr. seedlings, 5 to 10 ins.	16.00	120.00

(Continued in next column)

(Continued from previous column)

240,000 Taxus capitata seedlings, special price on quantity lots.

Complete catalog on request.
HEASLEY'S NURSERIES
247 Freeport Road Butler, Pa.

EVERGREEN LINERS

	Each, 100	1000
ARMSTRONG PFITZER JUNIPER		
2-in. pots, 2-yr., 5 to 7 ins.	$0.27½	$0.22½
2-in. pots, 1-yr., 4 to 6 ins.	.23½	.18½
BURK JUNIPER		
2½-in. pots, 1-yr., 8 to 10 ins.	.25	.20
HETZ GLAUCA JUNIPER		
2½-in. pots, 1-yr., 5 to 6 ins.	.23½	.18½
BLUE PFITZER JUNIPER		
2½-in. pots, 1-yr., 6 to 7 ins.	.25	.20
Rooted cuttings, 7 ins.	.15	.14
BERCKMANS' BIOTA A. N.		
Field-grown, 3-yr., 6 to 8 ins.	.35	.30
TAXUS ANDERSONI		
2½-in. pots, 1-yr., 5 to 7 ins.	.22½	.17½
TAXUS BROWNI		
2½-in. pots, 1-yr., 4 to 6 ins.	.22½	.17½
TAXUS COLUMNARIS		
2½-in. pots, 1-yr., 5 to 7 ins.	.22½	.17½
TAXUS CUSPIDATA		
2½-in. pots, 1-yr., 5 to 7 ins.	.22½	.17½
TAXUS HICKSI		
2½-in. pots, 1-yr., 5 to 7 ins.	.22½	.17½
TAXUS MEDIA		
2½-in. pots, 1-yr., 5 to 7 ins.	.22½	.17½

TERMS: Cash with order. Free packing.
Orders for spring held for one-fourth deposit.
300 plants of one variety at 1000 rate.
Not less than 50 of a variety.
VOGE NURSERY
New Lebanon, O.

BARE ROOTS	Each, 100	1000
Berckmans' Biota aurea nana,		
4 to 6 ins.	8c	7½c
6 to 8 ins.	12c	11c
8 to 10 ins.	16c	15c
10 to 12 ins., tr.	22c	20c
Biota excelsa, 8 to 10 ins.	10c	9c
Ilex, burfordi, 6 to 8 ins.	7c	6c
rotundifolia, rooted cuttings	5c	4c
Juniperus hetzi, 10 to 12 ins., tr.	19c	18c
Juniperus stricta, 6 to 8 ins.	11c	10c
10 to 12 ins., tr	22c	20c
Crape Myrtle, watermelon-red, 6 to 8 ins.	8c	7c

THE BUSH RANCH
140 Woodland Drive Thomasville, Ga.
James W. Lawson, Mgr. Phone Canal 6-4245.

EVERGREENS, *Liners*—Continued

EVERGREEN LINERS.

	Each, 100	1000
JUNIPERUS HETZI		
JUNIPERUS PFITZERIANA		
2-yr., flats	$0.30	$0.22
2-yr., 2¼-in. pots	.35	.28
4-yr., XX, 6 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.65	.55
TAXUS CUSPIDATA		
2-yr., flats	.30	.22
2-yr., 2¼-in. pots	.35	.28
TAXUS HICKSI		
2-yr., flats	.30	.22
ARBORVITAE, DARK GREEN		
2-yr., 2¼-in. pots	.35	.28
4-yr., XX, 9 to 12 ins., beds	.50	.40
4-yr., XX, 12 to 15 ins., beds	.60	.50
ARBORVITAE, PYRAMIDAL		
2-yr., flats	.30	.22
ARBORVITAE, WOODWARD GLOBE		
2-yr., 2¼-in. pots	.35	.28
4-yr., XX, 6 to 9 ins., beds	.50	.40
4-yr., XX, 9 to 12 ins., beds	.60	.50

25 at 100 rate; 250 or more at 1000 rate.

Northern-grown and good quality. Order now for fall or spring delivery.

BROWN DEER NURSERIES
P. O. Box 1747 Milwaukee 1, Wis.

EVERGREEN LINERS AND CUTTINGS
FIELD-GROWN TRANSPLANTS
POT-GROWN STOCK (FROM 2½-IN. POTS)
Grown in open lath house or outside frames.
Arborvitae, Junipers, Taxus,
Boxwood, Viburnums, Euonymus.
HEAVY ROOTED CUTTINGS
From flats, growing outside in lath house.
Ready for delivery now.

These extra hardy, outside-grown cuttings can be potted any time, spring, summer, fall.

Arborvitae, Junipers, Taxus,
Boxwood, Viburnums, Euonymus.
WRITE FOR PRICE LIST.

TERMS: Packing and boxing free. 3 per cent discount for cash with order.

Our stock guaranteed 100 per cent satisfactory.

250 plants of each variety at 1000 rate.

MIAMI NURSERY CO.
Corner of State Rts. 25 and 71
Phone 8815 Tipp City, O.

QUALITY LINERS	100	1000
Taxus cuspidata, 1-yr., T.	$17.00	$150.00
2-yr., T.	25.00	200.00
3-yr., 6 to 8 ins.	30.00	250.00
8 to 10 ins., heavy	35.00	300.00
10 to 12 ins., heavy	40.00	350.00
Taxus hicksi, 2-yr., T.	25.00	200.00
3-yr., 8 to 10 ins.	35.00	300.00
10 to 12 ins., heavy	40.00	350.00
Taxus capitata, 1-yr., T.	20.00	175.00
Andorra Juniper, 1-yr., T, 6 to 8 ins.	18.00	150.00

Cash with order earns free packing.

LINCOLN NURSERIES
Grand Rapids 4, Mich.

PINE, SPRUCE SEEDLINGS AND LINERS	100	1000
Scotch Pine, 3-yr., 8 to 14 ins.	$ 6.00	$35.00
Colo. Blue Spruce, 4-yr., 6 to 12 ins.	8.00	55.00
Norway Spruce, 3-yr., 6 to 12 ins.	6.00	40.00
Juniperus glauca hetzi, 2-yr., 6 to 12 ins.	25.00	....
Spreading Jap. Yew, 3-yr., 4 to 8 ins.	30.00	....

Write for complete list.

PAINT CREEK NURSERIES
R. D. 1 Shippenville, Pa.

Small Ads Do Great Things in the American Nurseryman Classified Section.

EVERGREENS, B&B

ILEX CRENATA (JAPANESE HOLLY)	EACH, 100
1½ to 2 ft., B&B	$3.25
2 to 2½ ft., B&B	4.25
2½ to 3 ft., B&B	5.25
3 to 3½ ft., B&B	6.50
4 to 5 ft., B&B	9.00
ILEX CRENATA (SPREADING TYPE)	
15 to 18-in. spread, B&B	3.00
18 to 24-in. spread, B&B	3.90
2 to 2½-ft. spread, B&B	5.00

BULK'S NURSERIES
619 N. Montauk Highway Babylon, N. Y.

BEAUTIFUL JUNIPERS

Pfitzer and Hetz, while they last.
18 to 24 ins. and over,
$1.50 each.

ROY GRAMSE NURSERY
Route 7 Paducah, Ky.

JUNIPERS, PFITZER AND HETZ
Field-grown and sheared.

12 to 15 ins., 50c; 15 to 18 ins., 75c; 18 to 24 ins., $1.00. You dig them. Row-run, $60.00 per 100.

A. J. BUTTERFIELD, FARMINGTON, MO.

JUNIPERUS GLAUCA HETZI
2-yr., bedded, 18 ins. tall,
$18.00 per 100, $150.00 per 1000.
SINGER GARDENS
Stamping Ground, Ky.

EVERGREENS, *Miscellaneous*

FALL 1957—SPRING 1958
2-YR. PLANT BAND LINERS, 2½-IN.

	Per 25	Per 250
Taxus cuspidata, 8 to 10 ins.	$0.37	$0.35
Taxus hicksi, 8 to 10 ins.	.37	.35
Taxus capitata, 8 to 12 ins.	.42	.40
Arbor., woodwardi, 6 to 8 ins.	.32	.30

Sold in multiples of 25 per variety.

250 of any one variety or assorted varieties at 250 rate. Free boxing.

B&B FINISHED STOCK	Each
Taxus cuspidata (heavy), 15 to 18 ins.	$5.50
Taxus cuspidata (heavy), 18 to 24 ins.	6.25
Taxus densiformis, 12 to 15 ins.	4.50
Arbor., gr. nigra, 24 to 30 ins.	2.50
Arbor., gr. nigra, 30 to 36 ins.	3.00
Euonymus yedoensis, br., 3 to 4 ft.	.90

B&B stock to pick up by truck.

DRAKE'S NURSERIES
G-4342 Branch Rd. Flint 6, Mich.

BLACK PINE	
1-yr. seedlings	$ 50.00 per 1000
3-yr. seedlings	100.00 per 1000
3-yr. transplants	250.00 per 1000
4-yr. transplants	500.00 per 1000
5-yr. transplants	1000.00 per 1000
3 ft., B&B	$ 5.00 each
4 ft., B&B	7.50 each
5 ft., B&B	10.00 each

We also have Scotch and Austrian Pine in larger sizes.

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

EVERGREENS
Large assortment of varieties and sizes.
Ask for our wholesale price list.
WAYNESBORO NURSERIES
Waynesboro, Va.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.
Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

FRUIT AND NUT TREES

DWARF APPLE TREES

1000 E. Malling IX, true dwarf trees,
many good varieties.
1-yr. whips and 2-yr. branched.

BAUM'S NURSERY
R.F.D. 4 Danbury, Conn.

GARDEN ROOTS

CANADA RED RHUBARB
(Chipman's strain.)
MacDonald Red and Victoria.
Good No. 1 divisions.
Fall or spring delivery.
Wholesale only. Write
CHAPMAN'S BERRY FARM
East Leroy, Mich.

GRAPEVINES

CONCORD GRAPEVINES

Strong 2-yr.-old, No. 1 vines.
$6.00 per 100.
$50.00 per 1000.

MORI'S NURSERY
R. 2 Niagara-on-the-Lake, Ontario, Canada

GROUND COVERS

HARDY MYRTLE
(Vinca minor, Periwinkle)

Fresh dug, large, 18 to 25-cane clumps, $50.00 per 1000.

Hall's Honeysuckle (halliana japonica), $45.00 per 1000.

Pachysandras, large 1-yr. rooted cuttings, $55.00 per 1000.

Euonymus coloratus, 1 and 2-yr., $57.00 per 1000.

Fine Scottish Strain English Ivy, $50.00 per 1000.

H. C. WAUGH
R. R. 1, Box 41 Gallipolis, O.

Hardy Myrtle (Vinca minor), plants with 20 leads or more and good roots, $5.00 per 100, $45.00 per 1000. Pachysandras, sand-rooted cuttings, $40.00 per 1000. English Ivy, sand-rooted cuttings, $40.00 per 1000. Cash.
Samuel I. Minder, 305 Euclid Ave., Lancaster, Pa.

HARDY PLANTS

DICENTRA SPECTABILIS	10	100	1000
2 to 3 eyes	$2.50	$17.50	$150.00
3 to 5 eyes	3.50	25.00	225.00
5 to 8 eyes	4.50	35.00	325.00
DICENTRA EXIMIA			
2 to 3 eyes	2.00	12.50	100.00
3 to 5 eyes	2.50	17.50	150.00
5 to 8 eyes	3.50	25.00	200.00

GROWERS EXCHANGE, Farmington 8, Mich.

HARDY PLANTS

Heavy transplanted, field-grown. Among the many items you will find in our new list are

ARTEMISIA (SILVER MOUND), $12.00 per 100.
DICENTRA EXIMIA (BLEEDING HEART), heavy clumps, freshly dug, $15.00 per 100.
DELPHINIUM LYONDEL GIANT HYBRIDS, $15.00 per 100.
IBERIS SEMPERVIRENS, $12.00 per 100.
SEDUM SPECTABILE BRILLIANT, $10.00 per 100.
TRITOMAS, EARLY HYBRIDS, RED AND ORANGE SHADES, $10.00 per 100.

Order direct from this ad or write for complete list.

WALTERS GARDENS
Route 2 Zeeland, Mich.

IBERIS

Sempervirens, fine 2-yr. plants, $2.20 per 10, $20.00 per 100, $190.00 per 1000.

Snowflake, 2-yr. plants, $2.50 per 10, $22.00 per 100, $210.00 per 1000.

PITZONKA'S PANSY FARM & NURSERY
Bristol, Pa.

ASTILBES (HERBACEOUS SPIRAEAS)
Excellent pot plant item.
FANOL, deep red; BONN, deep rose;
DEUTSCHLAND, pure white.
$4.00 per 10, $30.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

America's best source
for Hardy Plants is
THE WAYSIDE GARDENS
Mentor, Ohio
Write for Trade List.

GYPSOPHILAS
BRISTOL FAIRY, fully double snow-white
FLAMINGO, fully double pink
$5.30 per 10, $40.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

LIRIOPES (OPHIOPOGONS)

The hardy Evergreen for walks and borders. Strong divisions, $20.00 per 1000.

MOUNTVILLE NURSERIES, Mountville, Ga.

DICENTRA SPECTABILIS	
3 to 5-eye divisions	$35.00 per 100
5 eyes up	45.00 per 100

FINNERTY'S NURSERY, Rensselaer, N. Y.

SPECIALISTS IN HARDY PERENNIALS
Ask for wholesale offer.
PEARCE SEED CO., Moorestown, N. J.

WELLERS BETTER PERENNIALS
WELLER NURSERIES CO., Holland, Mich.
Write for trade list.

HELLEBORUS

HELLEBORUS NIGER
(Christmas Rose)
3-yr. transplants, blooming size.

Suitable to pot up for sales on roadside stands and garden centers.

$50.00 per 100, $450.00 per 1000.
C. HOOGENDOORN
Turner Rd. Newport, R. I.

HELLEBORUS NIGER
$6.00 per 10, $50.00 per 100.
GROWERS EXCHANGE, Farmington 8, Mich.

HOLLY

ILEX

Strong, healthy 2¼-in., pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

	Per 100
Ilex cornuta burfordi	$12.50
Ilex cornuta femina (3-in. pots)	20.00
Ilex crenata helleri	17.50
Ilex crenata rotundifolia	15.00
Ilex opaca East Palatka	20.00
Ilex opaca femina	20.00
Ilex opaca fosteri	20.00
Ilex vomitoria nana (dwarf Yaupon)	20.00

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

ILEX OPACA
Named varieties, four years in field.

2 to 3 ft., B&B	$ 5.00
3 to 4 ft., B&B	7.50
4 to 5 ft., B&B	10.00

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone 489-3

ILEX OPACA
SUPERIOR NAMED VARIETIES
WHOLESALE SUPPLIERS
OF LINING-OUT STOCK.
Write for price list.
HOLLY HAVEN, INC.
Box 75 New Lisbon, N. J.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-yr., 18 to 24-in., field plants, 3, 4 to 6 leads, $40.00 per 1000; lighter grade, $30.00 per 1000; sample 100, $4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: Or 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

XUM

HALL'S HONEYSUCKLE
Good plants, well packed, $20.00 per 1000.
MOUNTVILLE NURSERIES, Mountville, Ga.

IVIES

IVIES, ROOTED CUTTINGS
Ready now and later.

	Per 100	Per 1000
Hedera baltica, true stock ...	$6.50	$60.00
Hedera helix, true English ..	6.00	55.00

2¼-in. pots of either above, $15.00 per 100.
Free packing. Cash with order.
BABCOCK GARDENS
Route 3 Jamestown, N. Y.

BALTIC IVY

Hardiest Ivy. Fine for wall or ground cover. True stock. Well rooted plants. 8 to 12-in. vines.

	Per 100	Per 1000
2-in. pots	$12.50	$115.00
2½-in. pots, 1-yr.	20.00	190.00

STRATFORD GARDENS
Russell Breece, Mtd. Rt. 9 Delaware, O.

IVIES
English, small-leaved, $45.00 per 1000.
Baltic, $55.00 per 1000.
These are good rooted plants.
We have no greenhouse.
MOUNTVILLE NURSERIES, Mountville, Ga.

BALTIC IVY, TRUE STOCK
2½-in. pots, 1-yr.-old.
$150.00 per 1000.
BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

LAWN GRASS AND SEED

Certified Meyer (Z-52) and Emerald Zoysia. To be sure of highest quality Zoysia in these strains insist on certification by State Crop Improvement Association. Also Zoysia Matrella. Wholesale prices. Any quantity.

Merry Grass Nursery, Dept. C, Box 2176, Spring Hill Sta., Mobile, Ala. Phone GArden 6-1775.

LINING-OUT STOCK

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2¼-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100
Ilex cornuta burfordi, 8 to 10 ins.	$12.00
Ilex cornuta burfordi, 4 to 6 ins.	10.00
Ilex cornuta femina, 8 to 10 ins.	12.00
Ilex opaca femina (American Holly), 8 to 10 ins.	25.00
Ilex opaca femina, 4 to 6 ins.	20.00
Ilex opaca howardi, 8 to 10 ins.	16.00
Ilex opaca East Palatka, 8 to 10 ins. ..	15.00
Ilex crenata rotundifolia, 8 to 10 ins. .	12.00
Ilex crenata rotundifolia, 4 to 6 ins. ..	10.00
Ilex crenata microphylla, 6 to 8 ins. ..	12.00
Ilex aquifolium fem. (English Holly), 4 to 6 ins.	15.00
Berberis julianae, 6 to 8 ins.	15.00
Aucuba japonica, 4 to 6 ins.	15.00
Buxus harlandi, 4 to 6 ins.	10.00
Cherry Laurel, 6 to 8 ins.	10.00

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES
Poplar Pike
Germantown, Tenn.

A FEW THOUSAND
CERCIDIPHYLLUM MAGNIFICUM
PENDULA
(Graceful Chinese Katsura.)
(Large false Redbud.)

Size	50	100	500
15 to 18 ins.	$15.00	$28.00	....
12 to 15 ins.	14.00	22.00	....
9 to 12 ins.	11.00	17.00	$70.00
6 to 9 ins.	8.00	14.00	50.00
3 to 6 ins.	7.00	12.00	40.00

30 Cercidiphyllums, well-branched, transplanted twice, B&B, $2.75 each.

Rare Birch liners, a few hundred of each, $10.00 per 50, $15.00 per 100:

A—Betula schmidti, very shiny leaves; rapid grower, wide spreader.
B—Betula platyphylla japonica, very large shiny leaves, varied bark.
C—Betula maximowicziana, shiny leaves, bark yellow, white, red.

Viburnum lantana, wooly leaved Eng. Wayfaring Tree, heavy liners, $10.00 per 100.
Cash with order, please.
GARDNER NURSERY
R. 7, Box 266A Yakima, Wash.

LINING-OUT STOCK

Biota, Ilex, Juniper, Taxus, Thuja, Retinospora and Broad-leaved, rooted cuttings and transplants. List upon request.
MIST-O-GATION, INC., Middletown, Del.

LINING-OUT STOCK

	Per 100	Per 1000
Acer ginnala (Amur Maple), 1-yr. seedlings, 6 to 9 ins....	$ 7.00	$ 60.00
Acer palmatum atropurpureum, 1-yr. grafts, beds, 6 to 9 ins..	90.00	850.00
Acer palmatum atropurpureum, 3-yr., TT, fr., 12 to 15 ins...	150.00	1400.00
Acer platanoides, 1-yr. seedlings, 9 to 12 ins. ..	7.00	60.00
Acer platanoides, 2-yr., T, fr., 18 to 24 ins..........	15.00	140.00
Acer saccharum, 3-yr., TT, fr., 3 to 4 ft...............	35.00	300.00
Althaeas, 1-yr. seedlings	6.50	45.00
Azalea hinodegiri, 2-yr., T, beds, 4 to 6 ins............	50.00	450.00
Azalea hinodegiri, 3-yr., T, beds, 6 to 8 ins.	65.00	600.00
Berberis thunbergi, 2-yr., T, fr., 9 to 12 ins...........	8.50	75.00
Berberis thun. atropurpurea, 2-yr., T, fr., 9 to 12 ins.....	9.50	85.00
Buxus Newport Blue, 3-yr., TT, fr., 4 to 6 ins..........	40.00	350.00
Callicarpa japonica, 1-yr., seedlings, 9 to 12 ins.......	6.00	50.00
Cercidiphyllum japonicum, 1-yr., seedlings, 12 to 15 ins.......	7.00	60.00
Cornus florida, 1-yr. seedlings, grafting size	6.00	50.00
Cornus florida rubra, 3-yr., TT, fr., 18 to 24 ins., br. (each, $2.00)	175.00	....
Cornus kousa, 1-yr. seedlings, 6 to 9 ins...................	8.00	75.00
Cydonia japonica, 2-yr., T, fr., 12 to 18 ins..........	10.00	95.00
Euonymus radicans, 2-yr., T, fr.	35.00	300.00
Euonymus vegetus, 2-yr., T, fr.	35.00	300.00
Fagus sylvatica, 1-yr. seedlings, 6 to 9 ins............	9.50	85.00
Ginkgo biloba, 1-yr. seedlings, 4 to 6 ins.	7.50	70.00
Gleditsia triacanthos, 3-yr., TT, fr., 4 to 5 ft............	25.00	200.00
Hydrangea P.G., 2-yr., T, fr., 12 to 15 ins..........	30.00	250.00
Ilex aquifolium, 2-yr., T, beds, 12 to 15 ins.........	75.00	650.00
Juniperus hetzi, 2-yr., T, fr....	40.00	350.00
Koelreuteria paniculata, 1-yr. seedlings, 12 to 15 ins..	7.50	70.00
Liquidambar styraciflua, 3-yr., TT, fr., 18 to 24 ins...	35.00	300.000
Liriodendron tulipifera, 3-yr., TT, fr., 4 to 5 ft......	35.00	300.00
Pieris japonica, 1-yr., T, beds.	10.00	95.00
Pieris japonica, 2-yr., T, beds.	30.00	250.00
Pieris japonica, 3-yr., T, beds.	40.00	350.00
Quercus palustris, 1-yr. seedlings, 6 to 9 ins............	7.50	70.00
Quercus palustris, 3-yr., TT, fr., 2 to 3 ft............	35.00	300.00
Rosa rugosa, 1-yr. seedlings...	5.50	45.00
Sorbus aucuparia, 1-yr. seedlings, 9 to 12 ins.......	7.00	60.00
Sorbus aucuparia, 2-yr., T, fr., 18 to 24 ins..........	20.00	180.00
Taxus cuspidata nana (brevifolia), 3-yr., T, beds........	45.00	400.00
Taxus cuspidata, upright; seedlings, 2-yr., T, beds.....	15.00	120.00
Taxus cuspidata, upright; seedlings, 3-yr., T, beds.....	25.00	200.00
Taxus hatfieldi, 3-yr., T, beds..	45.00	400.00
Taxus microphylla, 3-yr., T, beds	45.00	400.00
Taxus thayeri, 3-yr., T, beds..	45.00	400.00
Thuja nigra, 2-yr., T, fr., 9 to 12 ins.................	40.00	350.00
Thuja woodwardi, 2-yr., TT, fr., 6 to 9 ins.............	40.00	350.00
Tsuga canadensis, 3-yr., T, beds	25.00	200.00
Viburnum carlesi, 3-yr., TT, fr, 18 to 24 ins., br. (each, $1.50)	125.00	....
Wistaria sinensis, 1-yr. seedlings	5.50	45.00
Zelkova serrata (sub. for American Elm), 2-yr., T, fr.	20.00	180.00

(Not subject to Dutch Elm disease.)
BOULEVARD NURSERIES
Newport, R. I.
Phone VI 6-1263.

ILEX AND TAXUS

	Per 100
2000 Ilex rotundifolia, 8 to 10-in. spread	$100.00
3000 Ilex rotundifolia, 1-yr., bed-grown	18.00
4000 Ilex convexa bullata, 2-yr., bed-grown	35.00
2500 Ilex convexa bullata, 1-yr., bed-grown	18.00
2400 Taxus capitata, seedlings, 2-yr., bed-grown	25.00

Immediate or spring delivery.
DIRKMAAT AZALEA FARM
P. O. Box 453, 516 Stevens Ave.
Ridgewood, N. J.

LINING-OUT STOCK	100	1000
Juniperus chinensis Blue Vase (Pfitzer sport), 6 ins., 2½-in. pots ..	$22.50	$200.00
Hardy wherever Pfitzer Juniper grows		
Juniperus chinensis Sylvestris, 2-yr., 12 to 15 ins., 2½-in. pots	25.00	225.00
Juniperus chinensis fortunei, 2-yr., 12 to 15 ins., 2¼-in. pots.....	25.00	225.00
Thuja orientalis Blue Spire, 8 to 10 ins., 2½-in. pots	20.00	175.00

(These are heavy pot-grown liners ready for outside planting.)
BRADSHAW'S NURSERY, League City, Tex.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root	$0.05
Blue Hetz Juniper, 6 to 8 ins., bare-root	.06
Burk Juniper (upright), 6 to 10 ins., bare-root	.14
Pfitzer Juniper, 6 to 8 ins., bare-root.	.08
*Savin Juniper, 5 to 7 ins., bare-root..	.06
Von Ehron Juniper, 6 to 10 ins., bare-root	.06
Moffet Blue Juniper (creeper), bare-root, 6 to 10 ins..............	.10
Moffet Green Juniper (creeper), bare-root, 6 to 10 ins..............	.10
Hill's Dk. Green Am. Arborvitae (pyramidal), 5 to 8 ins............	.12
Rosefield Juniper (upright chinensis), bare-root, Retail favorite.........	.20
Spreading Jap. Yew, 6 to 8-in. bands.	.20
DECIDUOUS, Bare-root	
Blue Spiraea (Caryopteris), 8 to 12 ins........................	.04
Blue-leaved Arctic Willow, 10 to 12 ins........................	.06
Golden Ninebark (Physocarpus), 4 to 6 ins........................	.04
Forsythia Arnold's Giant, 4 to 6 ins.	.08
Forsythia Lynwood Gold, 6 to 10 ins.	.05
Forsythia Spring Glory, 6 to 10 ins..	.04
*Forsythia nana compacta, 4 to 6 ins..	.05
*Forsythia Beatrix Ferrand, 6 to 8 ins.	.10
Hydrangea A. G., 5 to 8 ins..........	.08
*Hypericum kalmianum, 5 to 8 ins...	.08
Honeysuckle, Cardinal, 5 to 8 ins....	.05
zabeli, 5 to 8 ins..................	.05
Clavey's Dwarf, 4 to 6 ins.........	.05
HONEYSUCKLE VINE HECKROTTI, 4 to 6 ins........................	.05
Philadelphus Bouquet Blanc, 4 to 6 ins........................	.05
Privet, Chinese, Wayside Gardens strain; 6 to 12 ins..................	.04
Regels, 6 to 10 ins..................	.04
Lodense, 4 to 6 ins..................	.05
Snowball (Viburnum o. sterile), 4 to 6 ins........................	.08
Spiraea froebelli, 4 to 5 ins..........	.04
macrothyrsa, everblooming, pink, 4 to 6 ins........................	.05
Weigela Eva Rathke, 4 to 6 ins.	.06
Weigela vaniceki, 4 to 6 ins.	.06
BROADLEAFS.	
Euonymus, carrierei, 6 to 8 ins......	.04
patens Flagpole, small-leaved, 6 to 8 ins........................	.04
patens Owen, small-leaved, 6 to 8 ins........................	.04
patens, large-leaved, 6 to 10 ins....	.04
patens Newport, medium-leaved, 6 to 8 ins........................	.04
patens Rosehill, medium-leaved, 6 to 8 ins........................	.04
Euonymus, coloratus, 8 to 10 ins....	.03½
radicans (upright Sarcoxie), 5 to 6 ins........................	.07
Purple-leaved (Texas) Honeysuckle vine, 5 to 6 ins..................	.05
Variegated-leaved Honeysuckle vine (Gold Net), 5 to 6 ins...........	.06
*Pyracantha lalandi, 5 to 6 ins.......	.05
*Pyracantha Kasan, 5 to 6 ins........	.08
*Pyracantha pauciflora, 4 to 6 ins.....	.08

Starred varieties (*) ready November 15. Less than 300 total order, add 2c per plant.

McININCH GREENHOUSES
St. Joseph, Mo.

GOOD LINING-OUT STOCK
From open beds and the field.

Pfitzer Juniper, 4 to 6 ins..............	$0.06
6 to 10 ins............................	.12
10 to 14 ins...........................	.18
Ilex rotundifolia, rooted cuttings.......	.03
Ilex burfordi, rooted cuttings..........	.03
Nandina seed per lb....................	1.00
Ligustrum lucidum, rooted cuttings.....	.02
Euonymus patens, rooted cuttings......	.02
6 to 8 ins.............................	.04
Abelia grandiflora, 6 to 12 ins..........	.04
English Ivy (big-leaved), rooted cuttings	.02

Ivies, Nandinas and all others available now.
Lining-out stock is our one specialty.
E. F. DuBOSE NURSERY, Huntsville, Ala.

ROOTED CUTTINGS
Pfitzer Juniper, 5c each.
Abelias, 4c each.

The following 2¼-in. potted plants, 10c each: Pfitzer Juniper, Boxwood, large red-berried Pyracantha, Pyracantha lalandi, watermelon-red Crape Myrtle, Burford Holly and Magnolias. Also Euonymus, 40c each. To be picked up by truck. Check with order.

CARDEN'S NURSERY & CUT FLOWERS
4201 North St. Fort Smith, Ark.

LINERS

Juniperus tamariscifolia	18c
Blue Pfitzer Juniper	18c
Green Pfitzer Juniper	18c
Juniperus hetzi glauca	18c
Chamaecyparis elwoodi	18c
Variegated Holly	40c

Ready now. Out of pots. Cash.
KRUSCHKE GREENHOUSES
Clackamas, Ore.

FLORETUM LINERS, NONE BETTER
Seedlings and transpl. Write for trade list.
PRAIRIE SOUTHWEST FLORETUM
Fall River, Kan.

XUM

LINING-OUT STOCK—*Continued*

LINING-OUT LIST

Prices subject to change without notice.

All potted liners on this list are priced for shipment in paper pots or cups. Those who prefer the ordinary method of packing, omitting this added protection, may deduct 1c per plant. The 1000 rate applies on all orders; therefore, please order in multiples of 25 or more.

	Each, per 1000
BIOTA AUREA NANA	
2¼-in. pots	$0.18
2½-in. pots	.20
BIOTA AUREA PYRAMIDALIS COMPACTA	
2¼-in. pots	.16
2½-in. pots	.18
BIOTA BAKERI	
2¼-in. pots	.15
2½-in. pots	.17
BIOTA BONITA	
2¼-in. pots	.16
2½-in. pots	.18
BIOTA BONITA, UPRIGHT	
2¼-in. pots	.16
2½-in. pots	.18
BIOTA EXCELSA	
2¼-in. pots	.18
2½-in. pots	.20
BIOTA SIBYLI	
2¼-in. pots	.18
2½-in. pots	.20
CEDRUS DEODARA	
8x10-in. seedlings	.12
10x12-in. seedlings	.15
2¼-in. pots	.15
2½-in. pots	.17
BLUE LAWSON CYPRESS	
2¼-in. pots	.18
2½-in. pots	.20
ITALIAN CYPRESS	
2¼-in. pots	.18
JUNIPERUS CHIN. PFITZERIANA	
2¼-in. pots	.16
2½-in. pots	.17
JUNIPERUS CHIN. PFITZERIANA COMPACTA	
2¼-in. pots	.17
2½-in. pots	.18
JUNIPERUS CHIN. PFITZERIANA NANA	
2¼-in. pots	.20
2½-in. pots	.25
JUNIPERUS CHIN. PFITZERIANA BLUE GRAY	
*2¼-in. pots	.16
JUNIPERUS CHIN. ALBO-VARIEGATA	
*2¼-in. pots	.25
JUNIPERUS CHIN. FORTUNEI	
2¼-in. pots	.15
JUNIPERUS CHIN. SARGENTI, BLUE	
*2¼-in. pots	.20
*2½-in. pots	.22½
JUNIPERUS CHIN. VIRIDIFOLIA	
2¼-in. pots	.20
2½-in. pots	.22½
JUNIPERUS HORIZONTALIS DOUGLASI	
*2¼-in. pots	.18
*2½-in. pots	.20
JUNIPERUS EXCELSA STRICTA	
2¼-in. pots	.18
2½-in. pots	.20
JUNIPERUS GLAUCA HETZI	
2¼-in. pots	.16
2½-in. pots	.18
JUNIPERUS HORIZONTALIS PLUMOSA (Andorra Juniper)	
2¼-in. pots	.16
2½-in. pots	.18
JUNIPERUS JAPONICA PROCUMBENS	
2¼-in. pots	.20
JUNIPERUS JAPONICA VIRGINALIS	
2¼-in. pots	.16
JUNIPERUS SABINA	
2¼-in. pots	.18
JUNIPERUS SABINA TAMARISCIFOLIA	
2¼-in. pots	.20
2½-in. pots	.22½
JUNIPERUS VIRGINIANA KETELEERI	
2¼-in. pots	.18
2½-in. pots	.20
THUJA OCC. GLOBOSA	
*2¼-in. pots	.16
*2½-in. pots	.18
THUJA OCC. PYRAMIDALIS	
2¼-in. pots	.16
2½-in. pots	.18
TAXUS CUSPIDATA	
2¼-in. pots	.17
2½-in. pots	.18
TAXUS MEDIA BREVIFOLIA	
*2¼-in. pots	.17
*2½-in. pots	.18
TAXUS MEDIA HICKSI	
*2¼-in. pots	.17
*2½-in. pots	.18
ABELIA GRANDIFLORA	
2¼-in. pots	.14
2½-in. pots	.16
BERBERIS SARGENTI	
*2¼-in. pots	.16
BERBERIS JULIANAE	
2¼-in. pots	.25
2½-in. pots	.27½
BUXUS JAPONICA	
2¼-in. pots	.12
2½-in. pots	.15
3-in. cans	.20
BUXUS SEMPERVIRENS	
2¼-in. pots	.16
2½-in. pots	.18

(Continued in next column)

(Continued from previous column)

BUXUS SEMPERVIRENS CRONI (Cron hardy Boxwood)	
2¼-in. pots	.20
2½-in. pots	.22½
BUXUS SUFFRUTICOSA	
2¼-in. pots	.16
CAMELLIA SASANQUA MAIDEN'S BLUSH	
*2¼-in. pots	.16
*2½-in. pots	.18
ELAEAGNUS FRUITLANDI	
2¼-in. pots	.16
2½-in. pots	.17
EUONYMUS JAPONICUS AUREO-VARIEGATUS	
2¼-in. pots	.18
2½-in. pots	.20
EUONYMUS JAPONICUS	
2¼-in. pots	.16
2½-in. pots	.18
EUONYMUS PATENS, large leaf	
2¼-in. pots	.16
EUONYMUS PATENS, small leaf	
2¼-in. pots	.16
2½-in. pots	.17
EUONYMUS RADICAN ERECTUS	
2¼-in. pots	.16
GARDENIA FORTUNEI	
2¼-in. pots	.16
2½-in. pots	.17
GARDENIA RADICANS	
2¼-in. pots	.16
ILEX CORNUTA, seedlings	
2¼-in. pots	.16
2½-in. pots	.18
3-in. pots	.25
ILEX CORNUTA BURFORDI	
2¼-in. pots	.16
2½-in. pots	.17
3-in. pots	.25
ILEX CORNUTA FEMINA	
2¼-in. pots	.18
2½-in. pots	.20
ILEX CORNUTA, male	
2¼-in. pots	.18
ILEX CRENATA CONVEXA BULLATA	
2¼-in. pots	.16
2½-in. pots	.17
3-in. pots	.25
ILEX CRENATA HETZI	
2¼-in. pots	.20
2½-in. pots	.22½
ILEX CRENATA FOSTERI No. 1 A new low-growing compact spreader. Its small serrated foliage leaves are not convex and are more pointed than those of Ilex convexa bullata. Excellent material for plantings where low, compact, spreading specimens are required.	
2¼-in. pots	.18
3-in. pots	.25
ILEX CRENATA ROTUNDIFOLIA	
2¼-in. pots	.16
2½-in. pots	.17
ILEX GLABRA	
2¼-in. pots	.16
2½-in. pots	.18
ILEX OPACA EAST PALATKA	
2¼-in. pots	.18
2½-in. pots	.20
ILEX OPACA FEMINA	
*2¼-in. pots	.25
2½-in. pots	.30
ILEX OPACA, male	
*2¼-in. pots	.22½
2½-in. pots	.25
ILEX VOMITORIA	
2¼-in. pots	.20
2½-in. pots	.22½
ILEX VOMITORIA, dwarf	
2¼-in. pots	.18
ILLICIUM ANISATUM	
*2¼-in. pots	.16
JASMINUM FLORIDUM	
2¼-in. pots	.15
CHERRY LAUREL	
2¼-in. pots	.12
LIGUSTRUM IONANDRUM	
2¼-in. pots	.16
2½-in. pots	.18
LIGUSTRUM JAPONICUM	
2¼-in. pots	.15
LIGUSTRUM LUCIDUM COMPACTUM	
2¼-in. pots	.16
2½-in. pots	.17
LIGUSTRUM SINENSE PENDULA (Weeping Amur River Privet)	
2¼-in. pots	.12
MAGNOLIA GRANDIFLORA	
2¼-in. pots	.16
2½-in. pots	.18
MAHONIA BEALEI	
2½-in. pots	.20
3-in. pots	.25
NANDINA DOMESTICA	
3x4-in. seedlings	.05
2¼-in. pots	.10
2½-in. pots	.12
3-in. pots	.20
OSMANTHUS AQUIFOLIUM	
*2¼-in. pots	.20
PHOTINIA GLABRA	
*2¼-in. pots	.16
*2½-in. pots	.18
PHOTINIA SERRULATA	
2¼-in. pots	.20
2½-in. pots	.22½
PITTOSPORUM TOBIRA	
2¼-in. pots	.16
PODOCARPUS MACROPHYLLA	
2¼-in. pots	.16
2½-in. pots	.18
3-in. pots	.22½

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(Continued from previous column)

PYRACANTHA BELLI	
*2¼-in. pots	.20
TEUCRIUM CHAMAEDRYS	
2¼-in. pots	.10
VIBURNUM TINUS	
2¼-in. pots	.16
2½-in. pots	.18
ACER PALMATUM ATROPURPUREUM, seedlings	
2¼-in. pots	.20
2½-in. pots	.25
BERBERIS THUN. ATROPURPUREA	
2¼-in. pots	.16
2½-in. pots	.18
CORNUS FLORIDA	
6x8-in. seedlings	.05
2¼-in. pots	.12
2½-in. pots	.15
LONICERA FLAMING BEAUTY	
2¼-in. pots	.15
SPIRAEA ANTHONY WATERER	
2¼-in. pots	.10

SPECIAL NOTICE: ITEMS MARKED BY ASTERISK (*), DELIVERY LATE SPRING. ALL ITEMS NOT SO MARKED READY FOR IMMEDIATE SHIPMENT OR LATER TO SUIT CUSTOMERS REQUIREMENTS.

T. G. OWEN & SON, INC.
Columbus, Miss.

LINING-OUT STOCK

Following is a partial list of the many thousands of our high-quality liners. We have the finest liners that can be produced and invite your trial order.

	Per 100
Eriobotrya japonica (Loquat)	
6 to 8 ins.	$10.00
8 to 12 ins.	12.50
Feijoa sellowiana (Pineapple Guava)	
8 to 12 ins.	15.00
Gardenia August Beauty	
Gardenia fortunei	
Gardenia Mystery	
8 to 12 ins.	12.50
12 to 18 ins.	15.00
Ilex crenata rotundifolia	
6 to 8 ins.	17.50
8 to 12 ins.	20.00
Ilex glabra	
6 to 8 ins.	10.00
8 to 12 ins.	12.50
Ilex opaca fosteri	
6 to 8 ins.	12.50
8 to 12 ins.	17.50
Juniperus chinensis pfitzeriana	
6 to 8 ins.	15.00
8 to 12 ins.	20.00
Juniperus depressa plumosa (Andorra)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Lonicera yunnanensis (low Honeysuckle)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Nandina domestica	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
12 to 18 ins.	20.00
Osmanthus fragrans (Sweet Olive)	
6 to 8 ins.	15.00
8 to 12 ins.	17.50
Photinia glabra	
8 to 12 ins.	15.00
12 to 18 ins.	17.50
Pittosporum tobira	
6 to 8 ins.	12.50
8 to 12 ins.	15.00
Retinospora ericoides	
12 to 18 ins.	15.00
Magnolia grandiflora	
6 to 8 ins., transplanted	15.00
8 to 12 ins., transplanted	20.00
Magnolia soulangeana	
12 to 18 ins., 2-yr.	40.00
18 to 24 ins., 2-yr.	45.00
Magnolia stellata, 2-yr., 12 ins. and up.	40.00

We grow the finest container-grown stock in the South and have a much better selection of stock to select from. Write for our wholesale prices of all items.

BLACKWELL NURSERIES
Semmes, Ala.
WHOLESALE ONLY

LINING-OUT STOCK

Strong, healthy 2¼-in., pot-grown, in sterilized soil. Well established. Satisfaction guaranteed.

	Per 100
Buxus harlandi	$15.00
Buxus japonica	15.00
Callistemon lanceolatus (3-in. pots)	17.50
Callistemon rigidus	15.00
Cleyera japonica	15.00
Ilex (see our ad under Holly this issue)	
Juniperus chin. glauca hetzi	15.00
Juniperus chin. pfitzeriana	20.00
Ligustrum lucidum comp.	15.00
Magnolia fuscata (3-in. pots)	15.00
Osmanthus delavayi	15.00
Osmanthus fortunei	15.00
Osmanthus fragrans	15.00
Pittosporum tobira	15.00

COTTAGE HILL NURSERY
4000 Japonica Lane Mobile, Ala.

FINER LINERS

Our biggest and best stock of liners since 1921 is offered in our new fall and spring descriptive catalog. Finest quality at regular prices means more profits for you whom we strive to please. A free copy will be mailed upon request. Come see us if you can.

JOHN VERMEULEN & SON, INC.
Finer Liners, A-1F Neshanic Station, N. J.

LINING-OUT STOCK

	Each, 100	1000
Acer palmatum atropurpureum (Red Japanese Maple), 12 to 18 ins., strong 2-yr. grafts	$1.75	$1.50
Cornus florida rubra (red-flowering Dogwood), 1-yr. strong grafts, 18 to 24 ins.	.75	.70
Cotoneaster divaricata, 2-yr. transplants, branched, 12 to 18 ins.	.30	.25
Euonymus alatus compactus, 3-yr. transplants, 12 to 18 ins., branched, mail order size	.45	.40
Exochorda wilsoni (Pearlbush), 2-yr. grafts, 18 to 24 ins., from field rows	.75	.60
Forsythia Lynwood Gold, 1-yr. transplants, softwood cuttings, 18 to 24 ins., well-branched, mail order size	.18	.15
Forsythia Spring Glory, 1-yr., transplants, softwood cuttings, 18 to 24 ins., well-branched, mail order size	.18	.15
Juniperus hetzi, 2-yr. transplants	.40	.35
Pachistima canbyi, 2-yr. transplants	.50	.45
Prunus tomentosum (Nanking Cherry) strong 1-yr. seedlings	.10	.07½
Pseudotsuga taxifolia glauca (Blue Douglas Fir), 4-yr. transplants	.40	.35
Taxus capitata, strong 2-yr. selected seedlings, 4 to 6 ins.	.15	.12½
Taxus capitata, 4-yr. transplants	.45	.40
Taxus intermedia, 4-yr. TT, field rows (slow spreader)	.75	.60
Taxus thayeri, 2-yr. transplants	.45	.40
Viburnum carlesi, 2-yr. seedlings, 4 to 6 ins.	.15	.12½
Viburnum carlesi, 2-yr. seedlings, 6 to 8 ins.	.20	.17½
Viburnum carlesi, 2-yr. seedlings, 8 to 12 ins.	.30	.25
Viburnum carlesi, 3-yr. transplants, 15 to 18 ins.	.75	.60
Viburnum dilatatum, 1-yr. seedlings	.10	.09
Viburnum tomentosum (true), 1-yr. transplants, softwood cuttings	.25	.20
Viburnum wrighti, 2-yr. grafts, field rows, 10 to 18 ins.	.75	.60

C. HOOGENDOORN NURSERIES

Turner Rd. Newport, R. I.

LINING-OUT STOCK

Grown in our own nursery, in rich, black soil and under irrigation. All well and fibrous rooted.

SHRUBS

	Each, 100	1000
Euonymus americanus, 12 to 18 ins.	$ 7.50	$ 7.00
Euonymus europaeus, 12 to 15.	7.50	7.00
Forsythia ovata, 12 to 18 ins.	6.00	...
Forsythia spectabilis, 12 to 18.	6.00	...
Ligustrum amurense, 12 to 15	5.50	5.00
Ligustrum regelianum (from cuttings), 12 to 15 ins.	7.50	7.00
Lonicera bella chrysantha, 12 to 15 ins.	7.50	7.00
Lonicera ruprechtiana, 12 to 18	6.50	6.00
Persian Lilac, 12 to 15 ins.	10.00	9.00
Philadelphus coronarius, 12 to 18 ins.	7.50	7.00
Philadelphus lemoinei, heavy 2-yr., 15 to 18 ins.	11.00	10.00
Philadelphus virginalis, 6 to 8.	7.00	6.50
Philadelphus virginalis, 8 to 10	8.50	7.50
Physocarpus, 15 to 18 ins.	6.00	...
Physocarpus aureus, 15 to 18.	6.00	...
Physocarpus nanus, 12 to 15 .	6.00	5.50
Ribes aureum, 12 to 18 ins.	8.00	7.50
Spiraea froebeli, 6 to 8 ins.	6.00	...
Viburnum lantana, 12 to 18 ins., 2-yr.	14.00	12.50
Arctic Willow	.06½	...
Ligustrum ibolium, 15 to 18 ins.	5.50	5.00

EUGENE A. de ST. AUBIN & BRO., INC.

Addison, Ill.

FIELD-GROWN LINERS

All twice transplanted.

	Per 100
Juniperus pfitzeriana, 12 to 15 ins., XX	$50.00
9 to 12 ins., XX	40.00
Golden, 9 to 12 ins., XX	40.00
Thuja woodwardi, 9 to 12 ins., XX	40.00
elegantissima, 8 to 10 ins., XX	40.00
Ilex rotundifolia, 9 to 12 ins., XX	45.00
convexa, 8 to 10 ins., XX	35.00
TAXUS, 3 TIMES TRANSPLANTED	
Taxus cuspidata, 9 to 12 ins., XXX	50.00
European White Birch (seedlings)	
2 to 3 ft.	16.00
3 to 4 ft.	30.00
4 to 5 ft.	45.00
5 to 6 ft.	70.00

Cash with order earns free packing.

DAMASCUS NURSERIES

Damascus, O.

LINING-OUT STOCK

Berckmans' aurea nana Woodward Globe	Per 100	Baker's Pfitzer Per 1000
4 to 6 ins.	$ 8.00	$ 75.00
6 to 8 ins.	12.00	110.00

FLOWERWOOD NURSERY

P. O. Box 185 Cairo, Ga.

Phone 2-4021 or write.

LINING-OUT STOCK

Can be shipped fall or spring 1957-1958. 25 plants or more of a variety take 100 rate. 250 plants or more of a variety take the 1000 rate.

Lining-out stock for fall or spring delivery, 1957-1958.

	100	1000
Buxus welleri, 2-yr. beds, 6 ins.	$0.40	$0.35
Buxus handsworthi, 2-yr. beds, 4 ins.	.40	.35
Thuja occ. nigra, 3-yr. beds, 20 ins.	.40	.35
Thuja occ. nigra, 2-yr. beds, 8 ins.	.30	.25
Thuja occ. woodwardi, 2-yr. beds, 8 ins.	.30	.25
Thuja occ. pyramidalis, 2-yr. beds, 8 ins.	.30	.25
Thuja occ. elegantissima, 3-yr. beds, 14 ins.	.40	.35
Thuja occ. elegantissima, 2-yr. beds, 6 ins.	.30	.25
Taxus browni, 2¼-in. pots, 1-yr., 6 ins.	.30	.25
Taxus hicksi, 2-yr. beds, 10 ins.	.30	.25
Taxus hicksi, 2¼-in. pots, 1-yr., 6 ins.	.30	.25
Taxus cuspidata, 2¼-in. pots, 1-yr., 6 ins.	.30	.25
Taxus intermedia, 2¼-in. pots, 1-yr., 6 ins.	.30	.25
Taxus capitata, cutting-grown pots, 1-yr., 8 ins.	.30	.25
Aralia pentaphylla, 1-yr., 12 ins., rooted cuttings	.09	.07
Berberis mentorensis, 1-yr., 10 ins., rooted cuttings	.12	.10
Cotoneaster adpressa, 1-yr., 8 ins., rooted cuttings	.14	.12
Caryopteris incana Blue Mist, 1-yr., 10 ins., rooted cuttings	.10	.08
Deutzia gracilis, 1-yr., 12 ins., rooted cuttings	.10	.08
Deutzia lemoinei, 1-yr., 12 ins., rooted cuttings	.10	.08
Deutzia gracilis rosea, 1-yr., 12 ins., rooted cuttings	.12	.10
Cydonia japonica rubra, 1-yr., 10 ins., rooted cuttings	.12	.10
Clethra alnifolia, 1-yr., 6 ins., rooted cuttings	.12	.10
Euonymus vegetus, 1-yr., 10 ins., rooted cuttings	.10	.08
Euonymus coloratus, 1-yr., 10 ins., rooted cuttings	.12	.10
Euonymus erectus, 1-yr., 10 ins., rooted cuttings	.12	.10
Hypericum Hidecote, 1-yr., 10 ins., rooted cuttings	.12	.10
Potentilla Katherine Dykes, 1-yr., 8 ins., rooted cuttings	.12	.10
Spiraea japonica coccinea, 1-yr., 12 ins., rooted cuttings	.12	.10
Viburnum lantanaphyllum, 1-yr., 10 ins., rooted cuttings	.18	..
Viburnum lentago, 1-yr., 12 ins., rooted cuttings	.14	.12
Viburnum dilatatum, 1-yr., 12 ins., rooted cuttings	.14	.12
Viburnum dentatum, 1-yr., 12 ins., rooted cuttings	.12	.10
Viburnum americanum, 1-yr., 10 ins., rooted cuttings	.12	.10
Viburnum setigerum, 1-yr., 12 ins., rooted cuttings	.16	.14

CHAMPION NURSERIES

408 Main St. Perry, O.

LINING-OUT STOCK
HEAVY LINERS FROM FIELD BEDS

	Per 100
Taxus cuspidata, 4-yr., 12 to 15 ins.	$65.00
Taxus cuspidata, 3-yr., 10 to 12 ins.	55.00
Taxus capitata, 3-yr., 10 to 12 ins.	55.00
Taxus hicksi, 3-yr., 10 to 12 ins.	50.00
Taxus hicksi, 2-yr., 8 to 10 ins.	40.00
Taxus ovata, 3-yr., 10 to 12 ins.	50.00
Euonymus vegetus, 3-yr., branched	50.00
Euonymus vegetus, 2-yr., branched	35.00
Euonymus patens, 3-yr., 12 to 15 ins.	40.00
Euonymus patens, 2-yr., 10 to 12 ins.	30.00
Ribes alpinum, 3-yr., 12 to 15 ins.	30.00
Ribes alpinum, 2-yr., 10 to 12 ins.	20.00
Rhodotypos kerrioides, 2-yr., 12 to 15 ins.	20.00

STROHL'S NURSERY

5204 St. Joe Rd. Fort Wayne, Ind.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

MAPLES

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous roots.

	10-49	50-250
6 to 8 ft.	$ 3.00	$2.50
8 to 10 ft., 1 to 1¼-in.	4.40	3.50
9 to 11 ft., 1¼ to 1½-in.	6.00	5.00
10 to 12 ft., 1½ to 1¾-in.	8.80	7.00
11 to 13 ft., 1¾ to 2-in.	11.00	9.00

PRINCETON NURSERIES

Princeton, N. J.

NORWAY MAPLES

Straight trees, good root system.

	10 to 25	25 to 100
1¾-in. caliper	$10.00	$ 9.30
2-in. caliper	13.00	11.50
2¼-in. caliper	15.00	13.50
2½-in. caliper	18.50	17.00

BULK'S NURSERIES

619 N. Montauk Highway Babylon, N. Y.

COLLECTED ACER
RUBRUM AND SACCHARINUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

PACHYSANDRAS

PACHYSANDRAS

	Per 100	Per 1000
1-yr. plants	$ 4.50	$40.00
2-yr., field-grown, heavy	7.00	60.00
2¼-in., pot-grown	10.50	95.00

HANSEN BROS. NURSERIES, INC.

1268 Montgomery Ave. Narberth, Pa.

PACHYSANDRA TERMINALIS

1-yr., field-grown, $65.00 per 1000.

Rooted cuttings, $4.25 per 100.

HILLCREST GREENHOUSES

Box 468 Franklin, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock. $45.00 per 1000; $42.50 per 1000 for 5000 or more, including good packing.

Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, $4.25 per 100, $40.00 per 1000.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

PACHYSANDRAS

Out of 2-in. pots, $12.00 per 100, $100.00 per 1000. F.O.B. Elizabeth, N. J.

DELAWARE VALLEY NURSERY

948 N. Broad St. Elizabeth, N. J.

PEONIES

SURPLUS PEONIES, FALL 1957

	3 to 5-eye	2 to 3-eye
Baroness Schroeder	105	75
Bunker Hill	220	150
Clairette	40	35
Duchess of Portland	70	30
Edulis Superba	190	190
Felix Crousse	260	130
Festiva Maxima	80	95
Georgiana Shaylor	60	35
Karl Rosefield	..	85
Lady Alexandra Duff	150	110
L'Etincelante	20	30
Longfellow	30	85
Martha Bulloch	15	..
Mme. de Verneville	..	50
Mons. Jules Elie	125	125
Mrs. Frank Beach	300	140
Nippon Beauty	30	50
Reine Hortense	..	35
Ruigegno	..	45
Samuel Hughes	20	60
Sarah Bernhardt	80	50
Solange	15	30
Toro-no-maki	40	..
Venus	90	115

Strong, healthy, cut from young block.
3 to 5-eye, 30c each; 2 to 3-eye, 25c each.
Will sell the entire lot for 5c less per plant.
ACT QUICKLY.

HILLENMEYER NURSERIES

Lexington, Ky.

OFFICINALIS PEONIES

Very early flowering	10	100
OFF. ALBA-PLENA, dbl. white	$5.50	$50.00
OFF. MUTABILIS, pink to white	4.50	40.00
OFF. ROSEA-PLENA, dbl. pink	4.50	40.00
OFF. RUBRA-PLENA, dbl. red	5.00	45.00

DOUBLE PEONY COLLECTION

Finest cut flower varieties. Clean, healthy roots, 2 to 5 eyes, grown 1 year from single propagating units. Far superior to divisions of old, worn-out clumps. Collection contains 40 RED, 30 WHITE and 30 PINK.

Price: $29.50 per collection.

Herbaceous and Tree Peony list on request.

GROWERS EXCHANGE, Farmington 8, Mich.

2-YR. FIELD-GROWN PEONIES

Whole clumps, not divided; 6 eyes and up, $75.00 per 100, $700.00 per 1000; divisions 3 to 5 eyes, $40.00 per 100, $350.00 per 1000, following varieties:

Adolph Rousseau, Albert Crousse, Baroness Schroeder, Duch. de Nemours, Edulis Superba, Felix Crousse, Festiva Maxima, Gen. McMahon, Karl Rosefield, Lady Alex. Duff, Marie Lemoine, Mons. Jules Elie, Reine Hortense, Sarah Bernhardt.

VERKADE'S NURSERIES, Wayne, N. J.

TREE AND HERBACEOUS PEONIES
ATHA GARDENS, WEST LIBERTY, O.

PHLOX

PHLOX SUBULATA

CREEPING PHLOX, also known as MOSS PHLOX or THRIFT.)

300,000 field-grown clumps available in 20 varieties, priced at $12.00 per 100, $100.00 per 1000. Ask for our new listing.

WALTERS GARDENS

Route 2 Zeeland, Mich.

HARDY PHLOX

Strong, clean 1-yr.-old plants, 60 varieties to choose from, $14.00 per 100, $110.00 per 1000. Ask for our new listing.

WALTERS GARDENS

Route 2 Zeeland, Mich.

PHLOXES—*Continued*

PHLOX SUBULATA
(CREEPING PHLOX)

50,000 2-yr. plants, field-grown, 12 to 18 ins.

Blue Hills, blue
Amoena, clear pink
Admiration, dainty pink, white eye
Astero, deep orchid-rose
Beauty, large, rose petals
Moerheim, deep salmon-pink
Rosea, rose
Butterfly, lilac-blush, purple eye
Crimson Beauty, brilliant large red
Sensation, bright pink, red eye
Gloria, lavender, darker eye
Continual, everbloomer; pink, dark eye
Pink Beauty, mauve-pink, white eye
Star, soft pink, white eye
Lilacina, blue, delicate eye

Orders no less than 100 plants, $9.00 per 100, $85.00 per 1000.

SPRING ACRES NURSERY
Morris, Ga.

PHLOX SUBULATA
or
CREEPING PHLOX

See our ad in the October 15 issue or write us for list.

TANGLEWOOD FARM
Box 336-N Clinton, S. C.

PIERIS

PIERIS JAPONICA (ANDROMEDA)

	Per 100	Per 1000
4-yr., TT, 8 to 12 ins.	$40.00	$350.00
4-yr., TT, 6 to 8 ins.	30.00	250.00

PETER BROUWER'S NURSERIES
24 Lester St. New London, Conn.

PIERIS JAPONICA (ANDROMEDA)

	Per 100	Per 1000
1-yr., T, 2 to 3 ins.	$8.00	$75.00

PLANE VIEW NURSERY
West Main Rd. Newport, R. I.

PYRACANTHAS

PYRACANTHA LALANDI

6-in. cans, 18 ins.	$1.00
9-in. pots, 2 to 3 ft.	$2.00 to 3.00
5-gal. cans	5.00

BAIER LUSTGARTEN NURSERIES
Middle Island, L. I., N. Y.

RHODODENDRONS

HYBRID RHODODENDRONS

Well-budded, field-grown plants in open sun.

Varieties, America, red; roseum elegans, rose-pink.

	Each 10 rate	Each 100 rate
15 to 18 ins., B&B	$ 5.00	$4.50
18 to 24 ins., B&B	7.00	6.50
2 to 2½ ft., B&B	8.50	8.00
2½ to 3 ft., B&B	11.00	...

SPRINGFIELD NURSERY
Established 1923
492 Mountain Ave. Springfield, N. J.

100,000 hybrid Rhododendrons. We grow 95 per cent red, 250 varieties, own roots; rooted cuttings from sand, $65.00 per 100, $550.00 per 1000.

2-yr. liners, heavy, B&B. No rerooting, to plant in open field; no shade, no protection. 6 to 12 ins., up to 12 branches; bed-run, red, white, $275.00 per 100; pink, lavender, $195.00 per 100.

Landscape size, send for price list. No shipping.

Kordus Nursery, Deer Park Ave., R. 4, Box 152, Huntington, N. Y.

RHODODENDRONS
HYBRID RHODODENDRONS
Landscape sizes.
Different colors.
PARMENTIER'S ROSES
Grady St. Bayport, L. I., N. Y.
Phone Bayport 8-0811

RHODODENDRON MAXIMUM

Nursery-grown and collected, 2 to 7 ft. high. Well-shaped, symmetrical plants.

CURTIS NURSERIES, INC.
Callicoon, N. Y.

GRAFTED, NORTHERN-GROWN, HARDY,
HYBRID RHODODENDRONS
LITTLE TREE NURSERIES
Eric Streiff, Prop. Rowley, Mass.
Phone Whitney 8-2541.

ROSEBUSHES

ROSEBUSHES
2-YR. PLANTS.

Grown, graded and packed to perfection. 246 varieties and 12 different types to choose from.

WRITE TODAY FOR PRICES AND
YOUR REQUIREMENTS NOW!

ROSEMONT NURSERIES
D. L. Thompson, Owner
Dept. AN Tyler, Tex.

MULTIFLORA ROSE

Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	$12.50
3 to 5 mm.	12 to 18 ins.	19.50
3 to 8 mm.	12 to 24 ins.	22.50
5 to 12 mm.	18 to 36 ins.	38.50

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.

4 to 6 mm.	$27.50 per 1000
2 to 4 mm.	17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for delivery this fall, winter or spring. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

ARP ROSES
The kind your customers want.

Gardeners who know and love Roses, choose superior ARP ROSES for full root and uniformity. Arp care-grown and Arp machine-packed. Profit-wise nurserymen, garden centers and direct-to-garden mail order firms depend on ARP ROSES. Beautifully packaged. Bare-root for landscape, storage or containers. All-America Rose Selections. 130 great varieties. Catalog and price list. Serving nurseries 36 years.

ARP NURSERY CO., WHOLESALE GROWER
Box 3338-A Tyler, Tex.

ROSEBUSHES
A WIDE ASSORTMENT OF REASONABLY
PRICED HIGH-QUALITY ROSEBUSHES
WITH FAST, COURTEOUS SERVICE
IS WHAT YOU GET AT
MARTIN'S ROSE NURSERY
P. O. Box 155 Arp, Tex.
Phone UL-92191
(A copy of our 1957-58 price list
will be mailed to you upon request.)

THE SEASON'S BEST DEAL.
See for yourself
BY
sending for our 1957-58 trade list.
WE STILL OFFER YOU A CHOICE OF
BARE-ROOT AND PREPACKAGED,
PATENT AND STANDARD ROSES.
NEW LONDON ROSES
"The ROSE Nursery"
P. O. Box 876 Overton, Tex.

Rosa multiflora japonica, thornless; the best stock for budding purposes. Will not injure playing children.

30,000 10-in. cuttings, handmade, $3.00 per 100, $10.00 per 1000; 2-yr., 12 to 24 ins., grown from cuttings not from seeds. Well-rooted, well-branched, $7.00 per 100, $60.00 per 1000.

Finger Lakes Nurseries, Geneva, N. Y.

ROSES

Hybrid Teas, climbers, polyanthas and floribundas. Excellent quality, priced reasonable. List of varieties free on request.

LINDALE NURSERY
Box 141 Lindale, Tex.
Phone 18F2-W.

Rosebushes, good assortment of high quality, grown, graded, packed by latest methods. Write for list. Tate Nursery, R. 3, Tyler, Tex.

For $4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the December 1 issue to reach us by November 15.

Forms for December 15 issue will close November 29.

AMERICAN NURSERYMAN
343 S. Dearborn St. CHICAGO 4, ILL.

OUR OWN FIELD-GROWN ROSEBUSHES
For fall or early winter.

Standard varieties, No. 1, 50c; No. 1½, 40c. Patented varieties available at fixed prices. Budded on seedlings with a fine root system, ideal for potting or home planting.

DANEGGER'S HI-WAY NURSERY, INC.
Box 336 Milford, Del.

FIELD-GROWN ROSEBUSHES
FINEST QUALITY.
Hybrid Teas, Floribundas,
Polyanthas and Climbers.
Price and variety list on request.
WELLS BROS. NURSERY
Box 625 Lindale, Tex.

SEEDS

LOVELL PEACH PITS

Avoid disappointing stands by planting tested pits with 93 per cent germination. We offer for immediate shipment, 300 bu. of these high-testing Lovell pits as follows:

	Per bu.
1 to 5 bu.	$3.85
5 to 10 bu.	3.75
10 to 30 bu.	3.60
30 to 100 bu.	3.45

WAYNESBORO NURSERIES
Waynesboro, Va.

COLORADO BLUE SPRUCE SEED

Sample and prices sent upon request.

DELL AUSTIN SEED COLLECTOR
Sapinero, Colo.

MULTIFLORA ROSE SEED

Carefully cleaned seed from thorny, hardy, midwestern living fences.

1957 crop, fall delivery.

1 to 10 lbs.	$3.50 per lb.
10 to 25 lbs.	3.25 per lb.
25 lbs. up	3.00 per lb.

F.O.B. Urbana.
WANDELL'S, R. 3, URBANA, ILL.

COLORADO NEW CROP
EVERGREEN SEED

Buy from the collector. Best prices for hardy high altitude.

Douglas Fir, Blue Spruce,
Concolor Fir. Write for catalog.
WESTERN EVERGREENS
Route 1 Golden, Colo.

Juniperus virginiana (Red Cedar, Platt type), lb., $4.50. Biota orientalis (Chinese Arborvitae) (Kansas), lb., $2.50. Rosa multiflora, thorny (Kansas and Neb.,), lb., $2.75.

Forestry Seed Service, Cuba, Kan.

SHRUBS AND TREES

SHADE AND ORNAMENTAL TREES

NORWAY MAPLE, straight trunks, beautiful heads, best fibrous root system.

	10-50	50-250
7 to 8 ft. high, 1 to 1¼-in. cal.	$4.20	$3.25
9 to 10 ft. high, 1¼ to 1½-in. cal.	5.75	4.75
10 to 11 ft. high, 1½ to 1¾-in. cal.	8.25	6.75
11 to 12 ft. high, 1¾ to 2-in. cal.	10.50	8.50
12 ft. and more, 2 to 2¼-in. cal.	12.00	...

AMERICAN ASH, nursery-grown, well-shaped, excellent root system.

	10-50	50-250
9½ to 10½ ft. high, 1½ to 1¾-in. cal.	$6.50	$6.00
10½ to 12 ft. high, 1¾ to 2-in. cal.	8.00	7.25

WHITE DOGWOOD, nursery-grown, well-spaced, beautiful tops, excellent root system.

4½ ft. to 8 ft. must be moved. Make us an offer on the block, about 300 trees.

For appointment call
PAUL HOVERMAN NURSERIES
239 Farview Ave. Paramus, N. J.
Phone COlfax 1-1060 or CO 1-1737.

SHRUBS AND TREES

Taxus hicksi, 8 to 10 ins., 30c; 10 to 12, 35c.
Taxus cuspidata, 8 to 10, 30c; 10 to 12, 35c.
Taxus browni, 8 to 10 ins., 30c; 10 to 12, 35c.
English Boxwood (bushy), 6 to 8 ins., 12c; 8 to 10 ins., 15c.
Evergreen Azaleas (in named varieties),
  2-yr. transplants, 20c.
  3-yr. transplants, 5 to 10 ins., 35c.
Ilex opaca, 6 to 10 ins., 2-yr. transplants, 30c.
Thuja globosa, 12 to 15 ins., $1.50; 15 to 18 ins., $1.75.
Thuja pyramidalis compacta, 2 to 6 ft., 60c per ft.

Ask for our price list.
LITTLE MOUNTAIN VIEW NURSERY
2701 Route 84 Mentor, O.

SHRUBS AND TREES

	Each
100 Birch, European White, Multiple, 8 to 15 ft., B&B	$10.00
Chinese Elm,	
200 1¼ to 2¼ ins., TT	3.65
300 ¾ to 2¼ ins., TT, row-run	3.00
500 Silver Maple, 6 to 8 ft., TT	1.75

WRITE FOR COMPLETE PRICE LIST
RICHARDSON NURSERIES
53947 Fir Rd., R. 1 Granger, Ind.
Phone BLackburn 9-1010.

ROOTED CUTTINGS, 1-YR. BEDDED
All stock has been under irrigation.

	Per 100	Per 1000
Ilex bullata, 4 to 6 ins.	$10.00	$ 90.00
Ilex crenata, 5 to 8 ins.	10.00	90.00
Juniper, Andorra, 4 to 8 ins.	10.00	90.00
Juniper, Hetz, 4 to 6 ins.	12.00	100.00
Juniper, Pfitzer, 4 to 6 ins.	12.00	100.00
Ilex glabra, 4 to 6 ins.	10.00	....
Retinospora plumosa aurea, 6 to 8 ins.	10.00	90.00
Retinospora plumosa, 6 to 8 ins.	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	90.00
Taxus browni, 4 to 6 ins.	12.00	100.00
Taxus capitata, tips, 6 to 8 ins.	15.00	....
Taxus cuspidata, 4 to 6 ins.	10.00	90.00
Taxus hatfieldi, 4 to 6 ins.	10.00	90.00
Taxus hicksi, 4 to 6 ins.	10.00	90.00
Taxus repandens, 4 to 6 ins.	12.00	....
Thuja globosa, 5 to 8 ins.	10.00	90.00
Pachysandras	4.00	35.00

1-YR. SEEDLINGS

	Per 100	Per 1000
Acer palmatum	$ 3.00	$25.00
Cornus florida	5.00	40.00
Chinese Chestnut	10.00	....
Fagus sylvatica	10.00	90.00
Taxus capitata	5.00	40.00

2-YR. SEEDLINGS

	Per 100	Per 1000
Acer palmatum	$6.00	$50.00
Balsam Fir, 3 to 5 ins.	4.00	35.00
Picea excelsa, 4 to 6 ins.	3.50	25.00
Picea pungens glauca, 3 to 5 ins.	4.00	35.00
Picea (White Spruce), 4 to 6 ins.	3.50	25.00
Pinus strobus, 4 to 6 ins.	3.50	25.00
Pinus sylvestris, 4 to 6 ins.	3.50	25.00
Thuja occidentalis, 4 to 6 ins.	5.00	40.00
Thuja orientalis, 4 to 8 ins.	3.50	30.00
Tsuga canadensis, 3 to 4 ins.	6.00	50.00
Taxus capitata, 4 to 6 ins.	7.00	60.00
Ilex crenata, 4 to 6 ins.	5.00	40.00

3-YR. SEEDLINGS, TRANSPLANTED

	Per 100	Per 1000
Taxus capitata, 4 to 8 ins.	$12.00	$100.00
Tsuga canadensis, 4 to 7 ins.	8.00	70.00
Douglas Fir, 5 to 8 ins.	6.00	50.00
Euonymus alatus, 5 to 8 ins.	6.00	45.00
Pinus strobus, 6 to 8 ins.	8.00	70.00

AZALEAS, 3-YR. TRANSPLANTS

	Per 100
Hinodegiri	$40.00

4-YR. TRANSPLANTS

	Per 100	Per 1000
Douglas Fir, 6 to 12 ins.	$10.00	....
Picea excelsa, 6 to 8 ins.	6.00	$50.00
Picea pungens glauca, 4 to 8 ins.	7.00	60.00
Picea rubens, 6 to 8 ins.	12.00	....
Tsuga canadensis, 5 to 8 ins.	10.00	95.00
Tsuga canadensis, 8 to 10 ins.	15.00	140.00
Tsuga canadensis, 10 to 12 ins.	20.00	190.00
Thuja occidentalis, 6 to 10 ins.	10.00	90.00

VAN DINE NURSERY
Berdan Ave. Preakness, Paterson, N. J.

SHRUBS

ALTHAEAS, NAMED VARIETIES

2 to 3 ft.	65c
3 to 4 ft.	75c

DEUTZIA GRACILIS

15 to 18 ins.	50c
18 to 24 ins.	60c

FORSYTHIA SPECTABILIS

2 to 3 ft.	50c
3 to 4 ft.	60c

HONEYSUCKLE ZABELI

2 to 3 ft.	55c
3 to 4 ft.	65c

SPIRAEA ANTHONY WATERER

15 to 18 ins.	50c
18 to 24 ins.	60c

TAMARIX, AMURENSIS AND HISPIDA

2 to 3 ft.	60c
3 to 4 ft.	75c
4 to 5 ft.	95c

PHILADELPHUS VIRGINALIS

2 to 3 ft.	60c
3 to 4 ft.	70c

FRENCH NURSERY CO.
Phone 5331 Clyde, O.

FOR FALL 1957 SHIPMENT

	Per 100
Cydonia japonica rubra, 2 to 3 ft.	$40.00
Euonymus alatus, 24 to 30 ins.	65.00
Euonymus alatus, 18 to 24 ins.	55.00
Euonymus alatus compactus, 15 to 18 ins.	45.00
Euonymus alatus compactus, 12 to 15 ins.	40.00
Engelman Ivy, 2-yr., I	25.00
Flowering Almond, 24 to 30 ins.	40.00
Lodense Privet, 9 to 12 ins.	18.00
Lonicera zabeli, 3 to 4 ft.	40.00
Philadelphus Bouquet Blanc, 3 to 3½ ft.	45.00
Philadelphus virginalis, 3 to 4 ft.	50.00
Prunus cistena, 3 to 4 ft.	85.00
Prunus cistena, 4 to 5 ft.	95.00
Spiraea opulifolia nana, 2 to 3 ft.	35.00
Spiraea vanhouttei, 3 to 4 ft.	40.00
Viburnum lantana, 3 to 4 ft.	55.00

Minimum order 100 each.
FANCHER'S NURSERY, Sturtevant, Wis.

HEATHERS

Callunas and Ericas in named varieties, purple, pink and white: from 2½ and 3-in. plant bands: 2-yr.-old stocky plants, $50.00 per 100. Minimum order 10 plants of a variety.

Cash with order for immediate or spring 1958 delivery.

MAYFAIR NURSERIES
R. D. 2 Nichols, N. Y.

FOR IMMEDIATE SALE
IN THE GROUND, or B&B

1000	Taxus, in variety, 2 to 3 ft., heavy	
50	Hicks Yew, 4 to 5 ft.	
1000	Euonymus patens, 3 to 4 ft., heavy	
200	Euonymus alatus comp., 30 to 36 ins.	
200	Viburnum tomentosum, 4 to 5 ft., hvy.	
200	Viburnum rhytidophyllum, 4 to 5 ft.	
500	Ilex convexa (bullata), 15 to 18, 18 to 21 and 21 to 24 ins.	
200	Cotoneaster divaricata, 4 to 5 ft., hvy.	
100	Salix babylonica, 2 to 3-in. caliper	
	RED OAKS, all sizes	
1000	White Pine, 8 to 12 ft., in the ground, per ft.	$1.00
1000	Austrian Pine, 6 to 10 ft., in the ground, per ft.	2.00
1000	Red Pine, 6 to 10 ft., in the ground, per ft.	.75
3000	Douglas Fir, 8 to 10 ft., in the ground, per ft.	1.00

THE BUDDIES NURSERY
Birdsboro, Pa.

PINK-FLOWERING DOGWOOD

2 to 3 ft., bare-root, branched	$1.50 each
3 to 4 ft., bare-root, branched	2.00 each
4 to 5 ft., bare-root, branched	2.75 each

OAK LEAF HYDRANGEA

18 to 24 ins., branched	.25 each
2 to 3 ft., branched	.40 each
3 to 4 ft., branched	.60 each

SILVER MAPLE

4 to 5 ft., branched	$35.00 per 100
5 to 6 ft., branched	50.00 per 100
6 to 8 ft., branched	65.00 per 100

SPIRAEA VANHOUTTEI

18 to 24 ins., branched	$75.00 per 1000
2 to 3 ft., branched	90.00 per 1000

PARK NURSERY CO.
204 Surrey Road Huntsville, Ala.

FLOWERING TREES

Crab Apples, 40 varieties; 1-yr. trees. Normal digging season begins December 1. Limited number. 7 to 8 ft., reset at one year. Descriptive booklet available.

Magnolias, soulangeana and nigra.
5 to 6 ft., B&B, $6.00.
6 to 8 ft., B&B, $7.00.
Cornus kousa chinensis, seedlings.
5 to 6 ft., B&B, $6.00.
6 to 8 ft., B&B, $7.00.
Cydonia Crimson Beauty.
A brilliant red, late, long blooming period.
Heavy, 6 to 8 ft., B&B, $6.00.

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone 489-3

SURPLUS STOCK

2-yr. No. 1 Concord and Fredonia Grapes	$75.00 per 1000
2-yr. everbearing Blackberry plants	25.00 per 1000
Redbud trees, hvy., 4 to 6 ft.	40.00 per 100
Lombardy Poplar, 8 to 10 ft.	60.00 per 100
Nandinas, B&B, 18 to 24 ins.	$1.25 each

Euonymus patens, B&B, 18 to 24 ins. (large or small leaf), $1.25 each.

Write for our new wholesale price list.
ROLLERS' WHOLESALE NURSERY
Rogers, Ark.

ALPINE CURRANT
Strong rooted cuttings.

100	$ 4.00
1,000	35.00
5,000	150.00
10,000	250.00

GOLDEN MOCK ORANGE

100	10.00
1,000	90.00

VARIEGATED DOGWOOD

100	9.00
1,000	80.00

NEWLAND'S NURSERY, Lake City, Minn.

AMERICAN ELM
Transplanted, nicely headed trees.

		Each			Each
20	6 to 8 ins.	$1.00	80	2½ to 3 ins.	$7.00
10	1¼ to 1½ ins.	2.00	40	3 to 3½ ins.	9.50
25	1½ to 2 ins.	3.50	15	3½ to 4 ins.	11.75
55	2 to 2½ ins.	5.00		Also sizes up to 6 ins.	

Less 10 per cent for entire lot. All prices F.O.B. our nursery. Truck pickup only.

PLATT'S LANDSCAPE NURSERY
Mt. Rt. 2, 901 E. Kimberly, Davenport, Ia.

BERBERIS ATROPURPUREA NANA
RED PIGMY
6 to 9-in. spread, $60.00 per 100.
9 to 12-in. spread, $80.00 per 100.

Hardy Rhododendron hybs., many varieties, cutting-grown from liners up to 24 to 30 ins.
Ask for our list of many other specialties.

WEST OREGON NURSERY
8550 N. W. Saltzman Rd. Portland 1, Ore.

VIBURNUM CARLESI

Seedlings that have been bedded 2 years. Excellent for lining out or for pre-wrapping for cash and carry. In lots of 25 or more, 12 to 15 ins., 60c; 15 to 18 ins., 75c.

HILLENMEYER NURSERIES
Lexington, Ky.

SHRUBS.
Wide assortment of varieties and sizes.
Ask for wholesale list.
WAYNESBORO NURSERIES
Waynesboro, Va.

SHRUBS AND TREES

See our Classified ad in this issue under LINING-OUT STOCK.

T. G. OWEN & SON, INC.
Columbus, Miss.

FORSYTHIA BEATRIX FARRAND
Strong plants out of 2¼-in. plastic pots.
$25.00 per 100, $225.00 per 1000.
No additional charge for packing.
F.O.B. Chino, Calif.
Minimum order 100 plants.
DESCANSO DISTRIBUTORS, INC.
12492 Pipeline Chino, Calif.

EUONYMUS VEGETUS

12 to 15 ins., bare-root	$1.00
15 to 18 ins., bare-root	1.25
18 to 24 ins., bare-root	1.50

(Add 40c for B&B.)
FRENCH NURSERY CO.
Phone 5331 Clyde, O.

CHERRY LAUREL LINERS
(Laurocerasus caroliniana.)

6 to 8 ins.	$5.00 per 100,	$40.00 per 1000
8 to 10 ins.	6.00 per 100,	50.00 per 1000

Booking orders for shipment now.
OWENS NURSERY
Whiskey Road Aiken, S. C.

SHADE TREES

Large assortment of varieties and sizes. Ask for wholesale price list.

WAYNESBORO NURSERIES
Waynesboro, Va.

TAXUS

TAXUS, FINER LINERS

Strong, healthy, hard to beat.	100	1000
BACCATA REPANDENS, 3-yr., TT, 6 to 12 ins., bed	$0.75	$0.60
CUSPIDATA, spreading,		
2-yr., T, 6 to 9 ins., bed	.40	..
2-yr., T, 9 to 12 ins., bed	.45	..
CAPITATA, upright, from Jap. seed, heavy		
4-yr., TT, 9 to 12 ins., bed	.60	.55
4-yr., TT, 12 to 15 ins., bed	.70	.65
4-yr., TT, 15 to 18 ins., bed	.80	.75
4-yr., TT, 18 to 21 ins., bed	.90	.85
5-yr., TTT, 9 to 12 ins., field	.75	.70
6-yr., TTT, 9 to 12 ins., field	.90	.85
6-yr., TTT, 12 to 15 ins., field	1.10	..
CUSPIDATA DENSIFORMIS,		
2-yr., T., 6 to 9 ins., bed	.45	..
2-yr., T, 9 to 12 ins., bed	.50	..
4-yr., TT, 8 to 10 ins., field	.75	..
CUSP. INTERMEDIA, rooted cuttings, 1-yr., 6 to 8 ins.	.12	..
2-yr., T, 10 to 12 ins., heavy, bed	.50	..
CUSP. VERMEULEN, rooted cuttings, 1-yr., 4 to 6 ins.	.10	.09
2-yr., 6 to 9 ins., bed	.40	..
2-yr., T, 9 to 12 ins., bed	.45	.42½
3-yr., TT, 6 to 12 ins., field	.60	..
4-yr., TT, 9 to 12 ins., field	.75	..
4-yr., TT, 12 to 15 ins., field	.90	..
MEDIA BROWNI, 2-yr., T, 6 to 12 ins., bed	.45	..
4-yr., TT, 9 to 15 ins., field	.85	..
MEDIA HATFIELDI, rooted cuttings, 1-yr., 4 to 6 ins.	.10	.09
rooted ctngs., 1-yr., 6 to 8 ins.	.12	..
2-yr., T, 6 to 9 ins., bed	.40	..
2-yr., T, 12 to 15 ins., bed	.55	..
3-yr., TT, 6 to 12 ins., field	.60	..
4-yr., TT, 9 to 12 ins., field	.75	..
MEDIA HATFIELDI, spreading rooted ctngs., 1-yr., 4 to 10 ins.	.12	.11
MEDIA HICKSI, 2-yr., T, 10 to 15 ins., bed	.50	..
MEDIA KELSEYI, 1-yr., T, 6 to 9 ins., bed	.25	..
2-yr., T, 6 to 9 ins., bed	.40	.37½
2-yr., T, 9 to 12 ins., bed	.50	..
4-yr., TT, 9 to 12 ins., field	.50	..
MEDIA VERTICALS, tall, narrow, hardy (ask for catalog)		
2-yr., T, 6 to 9 ins., bed	.50	..
2-yr., T, 9 to 12 ins., bed	.60	..
4-yr., TT, 6 to 12	.90	..
1-yr., 2¼-in. pots	.35	.32½

JOHN VERMEULEN & SON, INC.
Finer Liners, A-1G Neshanic Station, N. J.

TAXUS CAPITATA

Strong 2-yr. seedlings, seeds sown lightly, plants grown with plenty of room in beds. $15.00 per 100, $125.00 per 1000.

C. HOOGENDOORN NURSERIES
Turner Road Newport, R. I.

VIBURNUMS

VIBURNUM CARLESI

	Per 100	Per 1000
2-yr. seedlings, 4 to 6 ins.	$15.00	$125.00
2-yr. seedlings, 6 to 8 ins.	20.00	175.00
2-yr. seedlings, 8 to 12 ins.	30.00	250.00

C. HOOGENDOORN NURSERIES
Turner Road Newport, R. I.

WANTED

WANTED—TO BUY

Taxus repandens, cutting wood for 10,000 cuttings.

WOOD-HOWELL NURSERIES, INC.
4473 Lee Highway Bristol, Va.

Wanted—Large quantities of Taxus wood for cuttings, to be shipped during the fall season. Make offer of varieties, quantities and best cash price.

Verkade's Nurseries, Wayne, N. J.

SUPPLIES AND SUNDRIES

BURLAP

NEW BURLAP
In bolts of 100 to 125 yards.
HEAVYWEIGHT BURLAP
FOR PROTECTION

36 ins.	21½c per yd.
40 ins.	22½c per yd.
45 ins.	24½c per yd.
48 ins.	26c per yd.
54 ins.	29c per yd.
60 ins.	32½c per yd.
72 ins.	40½c per yd.

LIGHTWEIGHT 57-IN. BURLAP EROSION CLOTH for seeded lawns and slopes, 21½c per yard. All prices are net F.O.B. New York. Minimum order 1 bolt. Orders of 3 bolts or more freight prepaid.

LEWIS INTERNATIONAL CO.
666 Clinton Ave. Newark 8, N. J.

More customers for you!
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

CANE STAKES

BAMBOO CANE STAKES

	Medium heavy Green or natural Per 500	Pencil thickness Dyed green 1000	2000
1½ ft.	$2.40	$ 3.20	$ 5.70
2 ft.	3.20	4.20	7.60
2½ ft.	4.00	5.20	9.50
3 ft.	4.80	6.60	12.40
3½ ft.	5.60	8.10	15.20
4 ft.	6.40	9.00	17.10
5 ft.	8.00	15.00	28.00
6 ft.	9.60	18.00	34.00

SPLIT BAMBOO, dyed green	1000	5000
12 ins.	$2.10	$ 9.00
15 ins.	3.00	12.60
18 ins.	3.80	14.40
24 ins.	4.50	21.60

HEAVY GRADES, NATURAL. Per 100.

	½ to ⅝-in.	⅝ to ¾	¾ to 1
4 ft.	$2.88	$3.44	$4.24
5 ft.	3.60	4.30	5.30
6 ft.	4.32	5.16	6.36
7 ft.	5.04	6.02	7.42
8 ft.	5.76	6.88	8.48

Approximate average thickness at bottom end. 5 bales up, less 5 per cent; 10 bales up, less 10 per cent. F.O.B. shipping point. Special prices for carlots.

A. C. PATTERSON, CENTERTOWN, KY.

LIGHTNING SERVICE
ON
FRESHLY IMPORTED
JAPANESE BAMBOO CANE STAKES
from
NEW YORK, CHICAGO, PORTLAND, ORE.
Write for our competitive prices
and generous quantity discounts.
McHUTCHISON & CO.
695 Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1306 W. Randolph St. Chicago 7, Ill.

Quick — Convenient — Cheap!
Selling through the Classified Ads
of the American Nurseryman.

CHRISTMAS DECORATIONS

CHRISTMAS DECORATIONS
Profit with
PLATT'S CHRISTMAS DISPLAYS.

Indoor and outdoor displays: Santa, sleigh and reindeer, the Nativity scene and many other traditional and religious Christmas displays. Decorations for mantel or door. Send for illustrated folder and discounts.

Also Christmas trees at wholesale: Nova Scotia Balsam Fir, Scotch Pine and Red Pine.

PLATT'S GARDEN WORLD
901 E. Kimberly Rd. Davenport, Ia.

COLORADO PINE, SPRUCE
AND FIR CONES
Obtained from gentle seed extraction,
not picked from the ground.
$1.00 per burlap sack.
Write for information.
WESTERN EVERGREENS
Route 1 Golden, Colo.

PONDEROSA PINE CLUSTERS

3 to 7 per branch. Approximately 6 to 8-in. stem. CUT ON ORDER to assure freshness. Minimum order 10. F.O.B. Golden.

WESTERN EVERGREENS
Route 1 Golden, Colo.

CHRISTMAS TREES AND BRANCHES

Large quantities of Red, White and Scotch Pine also Spruce. Come and give me an offer.

HABE NURSERY
R. 1, Box 360 Leechburg, Pa.

DECORATIVES

PINE CONES	Approx.	
Loblolly, 3 to 4 ins.	1 bu.	$2.50
Norway Spruce, 4 to 6 ins.	100	3.75
White Pine, 3 to 6 ins.	300	2.50
White Spruce, 1½ to 2 ins. (Corsage cones)	800	2.30
Hard cones, 1¾ to 2½ ins.	100	1.50
Assorted cones	½ bu.	1.75

MARYLAND NURSERY
Hyattsville, Md.

FERTILIZERS

PETERS SPECIAL
CONTAINER-GROWING FERTILIZERS

All materials listed are ideal for container-growing purposes.

SOLUBLE FERTILIZERS

21-7-7 Azalea Neutral (non-acid forming)
21-7-7 Azalea Acid (heavy acidifying action)
Both above, $6.50 per 25-lb. bag,
$22.00 for 4 25-lb. bags.
20-20-20 General Purpose Feed
$7.00 per 25-lb. bag, $24.00 for 4 25-lb. bags.

LONG-LIFE FEEDS

13-6-6 Organic Special. Du Pont Uramite Nitrogen and highest grade natural organics. The finest long-life dry feed. Unexcelled for containers.
$7.50 per 25-lb. bag, $28.00 for 4 25-lb. bags.

Du Pont Uramite. 38 per cent nitrogen from methyl-urea. $12.00 per 50-lb. bag.

Also available: Chelated Iron, Chelated Trace Element Complexes, Fritted Trace Elements, etc.

Write for complete price list.

Freight prepaid, east of Mississippi, on all orders totaling 300 lbs. or more of above materials. Less than 300 lbs., F.O.B. Allentown, Pa.

ROBERT B. PETERS CO.
739 North 7th St. Allentown, Pa.

FLATS

MINNESOTA WHITE CEDAR FLATS

Order by No.	Wt. Per 100	Price Per 100
No. 1, 14x20x2¾	320	$27.00
No. 2, 14x20x3¾	400	31.50
No. 3, 12x16x2¾	260	20.75
No. 4, 12x16x3¾	275	24.50
No. 5, 14x16x2¾	275	23.25
No. 6, 14x16x3¾	290	27.50
No. 7, 15x22⅝x2¾	380	30.75
No. 8, 15x22⅝x3¾	425	35.50
No. 9, 11¼x22⅝x2¾	320	25.00
No. 10, 11¼x22⅝x3¾	400	29.00
No. 11, 14x16x5	450	32.75
No. 12, 5x11x5	160	16.75
No. 13, 5x16x5	215	19.00
Plant boxes, 5x8½x2⅝	45	5.50

All other prices quoted on request.

5 per cent discount on order of 1000 or more.

The above measurements are inside. Bottoms and sides of cedar flats are ⅝-in. thick; ends are ¾-in. Plant boxes are thinner.

All material surfaced on one side.

Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, $1.00, plus ¾c per piece for the first 1000 ends. ½c per end thereafter. Shipped knocked-down in units of 25.

All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.

H. C. HILL & SONS, COOK, MINN.

MIXED SOUTHERN HARDWOOD FLATS

Includes Gum, Cottonwood, Maple, Willow and other soft hardwoods.

	Per 100
No. 1, 14x20x2¾	$24.85
No. 2, 14x20x3¾	29.00
No. 3, 12x16x2¾	19.00
No. 4, 12x16x3¾	22.50
No. 5, 14x16x2¾	21.50
No. 6, 14x16x3¾	25.50
No. 7, 15x22⅝x2¾	28.50
No. 8, 15x22⅝x3¾	33.00
No. 9, 11¼x22⅝x2¾	23.00
No. 10, 11¼x22⅝x3¾	26.75
No. 11, 14x16x4⅞	29.50
No. 12, 5x11x5	16.00
No. 13, 5x16x5	18.50

Ends are 13/16; sides and bottom are ⅝ resawn lumber, surfaced one side. Can ship by commercial truck lines or LCL freight from Karnak, Ill.

MAIN BROS. BOX AND LUMBER CO.
Incorporated 1902 Karnak, Ill.

REDWOOD FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. $38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., $3.50 per bdl.
50 pcs. to bundle, 5 ft., $4.50 per bdl.
50 pcs. to bundle, 6 ft., $5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, YOUNGSTOWN 2, O.

FLOCKING SUPPLIES

FLOC-FLO
Supplies, equipment
and free "How to Do It."
FLOC-FLO ENGINEERING DESIGN
5802 Olson Highway Minneapolis, Minn.

HOTBED SASH

SISALGLAZE SASH

Get all the information before you buy your sash. Also information on Sisalglaze greenhouses.

ROUGH BROS.
4227 Spring Grove Ave. Cincinnati 23, O.

LABELS

DAHLIA OR TREE LABELS

	Priced per carton Plain	Painted
3⅛x⅝ ins., notched, not wired	$3.00	$3.60
3½x⅝ ins., wired (copper)	3.95	4.90
POT LABELS		
4x⅝ ins. (cartons 1000 each)	3.95	4.60
5x⅝ ins. (cartons 1000 each)	4.30	5.10
6x⅝ ins. (cartons 1000 each)	4.70	5.80

	Priced per carton Plain	Painted
8x⅝ ins. (cartons 500 each)	$3.60	$4.30
10x⅝ ins. (cartons 500 each)	4.20	5.10
GARDEN STAKES		
8x ⅞ ins. (cartons 250 each)	3.00	3.60
10x ⅞ ins. (cartons 250 each)	3.30	3.90
12x1⅛ ins. (cartons 100 each)	2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day."
YOHO & HOOKER, YOUNGSTOWN 2, O.

ORCHID SUPPLIES

ORCHID SUPPLIES

FIR BARK, hobby bag, 65c; prof. bag, $1.85; 2-cu.-ft. bag, $3.75.

Detex	qt.,	$3.50;	gal.,	$11.00
Gaviota	1 lb.,	1.25;	5 lbs.,	5.00
Fish Meal	1 lb.,	.60;	10 lbs.,	5.00
Anti-Damp	qt.,	3.00;	gal.,	9.75
Urea Crystals	5 lbs.,	1.60;	25 lbs.,	7.45
Dolomite Lime	25 lbs.,	4.50;	50 lbs.,	7.50
Hoof and Horn Meal	25 lbs.,	4.50;	100 lbs.,	14.50
Ammonium Nitrate	25 lbs.,	2.75;	100 lbs.,	8.75
3-1-2 Fertilizer	1 lb.,	1.00;	25 lbs.,	15.00
Atlas Fish Emulsion	qt.,	1.90;	gal.,	6.25
Stake Holders for potting in Fir bark	6,	1.00;	72,	10.85
Hydromix Units for spraying and foliage feeding				3.95

Priced F.O.B., subject to change without notice.

WRIGHTWOOD FLORAL CO., INC.
1420 Wrightwood Ave. Houston 9, Tex.

PLANT TUBS

UTILITY PLANT TUBS
made from
New England White Pine
Per 100 tubs, F.O.B. NEW HAMPSHIRE.

Top dia.	Depth	Stained green	Stained white	Enameled glossy green	White with gold bands
7-in.	7-in.	$ 90	$ 98	$105	...
8-in.	5-in.	90	98	105	$112
8-in.	8-in.	95	112	112	...
9-in.	6-in.	98	112	112	127
9-in.	9-in.	102	112	117	...
10½-in.	6½ in.	102	112	117	127
10-in.	9-in.	112	120	127	...
11-in.	7-in.	105	112	120	...
12-in.	7-in.	110	125	130	140
12-in.	9-in.	132	147	147	...
12-in.	11-in.	180	195	195	...
14-in.	8-in.	165	180	180	195
14-in.	13-in.	210	225	225	...

For PRICES F.O.B. CHICAGO add 10 per cent.

Above prices apply on quantities of less than 100. Minimum order 5 tubs of any one size or color.

Sole Distributors,
ALEC HENDERSON, INC.
1306 W. Randolph St. Chicago 7, Ill.

PLASTIC FILM

POLYETHYLENE FILM

Wt.	Width	Roll length	Price
4 mil.	48 ins.	100 (transparent)	$ 7.25
2 mil.	50 ins.	200 (transparent)	7.55
1.5 mil.	36 ins.	500 (black for mulching)	10.31

Width available up to 20 ft. Write for our low prices on quantity orders.

POLY-LO CO.
Box 5111 Winston-Salem, N. C.

XUM

POLYETHYLENE FILM

Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.

.004 mil., all rolls 100 ft. long.

3 ft. wide by 100 ft. long .....$ 6.00 per roll
4 ft. wide by 100 ft. long ..... 8.00 per roll
6 ft. wide by 100 ft. long ..... 12.00 per roll
8 ft. wide by 100 ft. long ..... 16.00 per roll

Other sizes available up to 20 ft. wide.
Send $1.00 for liberal sample,
4 ft. x 10 ft. postpaid.
Special deal for greenhouse construction.
5 rolls to 9 rolls, 25 per cent discount.
10 rolls or more, 33 1/3 per cent discount.
"We ship same day."

YOHO & HOOKER
520 Williamson Ave. Youngstown 1, O.

POLYETHYLENE FILM

2 mil. in 200 ft. rolls, 36 ins. wide, $6.48; 54 ins. wide, $9.55; 108 ins. wide, $18.85.

4 mil. in 100 ft. rolls, 36 ins. wide, $6.87; 54 ins. wide, $9.91; 126 ins. wide, $22.05.

5 rolls, less 10 per cent; 10 rolls, less 20 per cent. Also wider widths available. Information on Sisalglaze Polyflex available.

We pay freight if check is with order.

ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

SPHAGNUM MOSS

Fresh clean sphagnum moss, write or phone City Point 133 for our low prices on wire-bound bales in truckloads or carlots.

Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.

Warrens Moss Co., Warrens, Wis.

STAKES

CYPRESS PLANT STAKES
50 pieces to bundle.

1x1-in.—3 ft., pointed ......$3.00 per bundle
1x1-in.—4 ft., pointed ...... 3.50 per bundle
1x1-in.—5 ft., pointed ...... 4.50 per bundle
1x1-in.—6 ft., pointed ...... 5.50 per bundle
1x1-in.—7 ft., pointed ...... 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!
YOHO & HOOKER
Youngstown 2, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree guying WIRE,
HOSE for guy wire PADDING.
Prices and sample sent on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

TRADE BOOKS

TRADE BOOKS.

Descriptive book circulars available on request.

CHRISTMAS TREES FOR PLEASURE AND PROFIT
by Chapman and Wray, $3.75.

TAYLOR'S ENCYCLOPEDIA OF GARDENING,
by Norman Taylor, $5.95.

THE BOOK OF TREES,
by A. C. Hottes, $4.00.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
343 South Dearborn Chicago 4, Ill.

WREATHS

BALSAM WREATHS

Nurserymen who want quality and service have ordered from us for 20 years. We guarantee satisfaction.

HOOP WREATHS

9-in., 22 to 24-in. dia., wt. 3½ lbs.,
bales of 10 ....$ 8.00
12-in., 26 to 28-in. dia., wt. 5 lbs.,
bales of 13 .... 10.00
18-in., 36-in. dia., wt. 9 lbs.,
bales of 10 .... 14.50

GRAVE BLANKETS ON CHICKEN WIRE
3x7 ft., full size, heavy, each 2.75
Crates of 20 or 25, each 2.50

BALSAM ROPE

4-in., on 4 strands binder twine, well-made; 100-ft. coils, 10c per ft.

SELECT BOUGHS
Balsam, 12 to 24 ins., 100-lb. bales 4.50
White Pine, 18 to 30 ins., 100-lb. bales 6.50

Made of fresh material for nurserymen and florists' best trades. Truck freight up to November 28 or express second class.

Cash, or 25 per cent cash, balance C.O.D.
Phone or wire orders collect if over $25.00.

J. R. PALMER & SON
Blackduck, Minn.

W. R. Schoenfield, Jr., left, president of Germain's, accepts the gold medal for development of the Queen Elizabeth rose from Fred W. Walters, LaCanada, Calif., president of the American Rose Society, at the conclusion of the group's 48th annual convention at Old Point Comfort, Va.

ROSE HONORS AWARDED

Recognition of outstanding rosarians highlighted the American Rose Society's 58th annual convention held recently at the Chamberlin hotel, Old Point Comfort, Va. Dr. Walter E. Lammerts, Livermore, Calif., received his second Gertrude M. Hubbard gold medal as the originator of the Queen Elizabeth rose. His Charlotte Armstrong won the preceding medal in 1945 as the best American rose introduced during the preceding five years.

The John Cook medal was presented to Frank Spanbauer, Decatur, Ill., for his White Butterfly greenhouse rose. This award alternates between a seedling garden and greenhouse rose of American origin. Robert V. Lindquist, Hemet, Calif., and E. S. Boerner, Newark, N. Y., shared honors in receiving the David Fuerstenberg prize (income from $1,000) for Tiffany and Spartan, respectively, "new roses of American origin, suitable to the American climate, that deserve honor." Mr. Boerner also won the award in 1950 for this rose, Fashion.

CALIFORNIA NOTES

[Continued from page 68]

about their professional interests, abilities and experiences and to make such information available to employers who ask for it. The October meeting of the group was held at the Brentwood Lodge, San Bruno. Prof. Howard Brown, head of the department of ornamental horticulture and floriculture at Cal

FOR BETTER PLANTS
to sell next spring
FEED
HELLER-GRO
NOW

Heller-Gro is a balanced plant food, 15-15-15 with trace elements. It comes in paste form and dissolves completely in water. All ingredients are U.S.P. (laboratory grade).

Heller-Gro is low in cost and it is easy to use.

Two sources provide Heller-Gro's nitrogen—nitrates for fast release and immediate growth response and urea for slow release and long-term benefits.

Heller-Gro solution will not burn even the tenderest plants. Odorless.

3¼-oz. tubes, 1-lb. cans,
3-lb. cans, 50-lb. pails

Send for
FREE TRIAL SAMPLE

HELLER GREENHOUSE
LABORATORIES
Dept. 41
218 E. Pikes Peak Ave.
Colorado Springs, Colo.

LEARN MODERN
LANDSCAPING
EARN
HIGHER
PAY!

American Landscape School's thorough easy-to-follow home-study method prepares you for a better job in 8 to 12 months.

Become a landscape specialist. Learn the newest, most modern methods and trends. Gain proficiency in contemporary landscape and garden design, drafting, mapping and field work. Improve your knowledge of horticulture, construction, superintendence, salesmanship, office practices.

45 generously illustrated lessons. 9 valuable textbooks. Hundreds of new ideas. 50 imprinted business cards, monthly landscape letter, consultation service, dictionary FREE to all students! Drafting set FREE with advance full payment.

FREE lifetime consultation service. 41st year. Successful graduates throughout the world. Mail coupon for complete information.

AMERICAN LANDSCAPE SCHOOL

Charter member,
National Home Study Council

Dept. 2117-B, 4500 Franklin Ave., Des Moines 10, Iowa

Please tell me how modern landscaping methods can increase my income.

Name..................................
Address...............................
City......................State.......

Poly, was the guest speaker. Officers of the organization are Robert Guinn, Garden Haven, Sunnyvale, president; Wesley Conner, Heutig & Schram, landscape contractor at Palo Alto, vice-president; Jack Christensen, Christensen Nursery, Belmont and Los Altos, second vice-president; Ben Furuichi, Los Altos Nursery, Los Altos, secretary, and Joseph Schultz, landscape gardener, Daly City, treasurer. John Miller, East Bay Nurseries in Berkeley, is placement director, and Goro Fujii, Meekland Avenue Nursery, Hayward, is parliamentarian.

The David B. Hill Seed Co., which has been brokering seed in the San Francisco area for 37 years, is holding a removal sale prior to Mr. Hill's retirement from business. He has been in ill health for several years and recently underwent serious surgery, which included the removal of an eye. When the business has been liquidated, the family will move to its ranch in the Santa Cruz mountains about 18 miles southeast of Los Gatos.

The Peninsula Tree Service is discontinuing operation after 14 years of caring for fruit and ornamental trees in the Cupertino area. Merton J. Carpenter, owner-manager of the

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements

Display: $4.50 per inch, each insertion. **Liners: 40c** line; minimum order **$4.00.**

HELP WANTED

MANAGER

Top opportunity with one of America's leading mail-order nurseries for experienced man to take complete charge of our perennial plant division. Must be capable of handling entire nursery operation from employee management straight on through. You will be given every opportunity to advance and, in addition, a good salary and new home in a nice community with good schools. We are looking for someone who is genuinely interested in the nursery business as his life's work. We think we have much to offer that person. Will pay travel expenses for interview. Please write Box 443, care of American Nurseryman, giving complete resume in first letter.

HELP WANTED

NURSERYMEN

One of the largest nurseries in southern California offers profitable, permanent positions to nurserymen with ambition. Security, pleasant working conditions and an unlimited future for the right men. Many extra benefits. All replies will be kept strictly confidential.

MONROVIA NURSERY CO.
P. O. Box Q Azusa, Calif.

HELP WANTED

GARDEN STORE MANAGER

Western New York location. Experience not necessary, but must be a merchandiser. Outstanding opportunity. Guaranteed salary plus profit sharing. Send full details. Replies kept in strict confidence. Address replies to Box 419, care of American Nurseryman.

HELP WANTED

Garden store manager, experienced man, year-round position. Good salary, other benefits. New garden store and general offices being constructed for upstate New York's largest tree surgeons and landscape contractors. Send replies to Box 442, care of American Nurseryman.

HELP WANTED

MANAGER TRAINEE

Retail sales. $300.00 month plus bonus. Excellent chance to advance with earnings $7,000 to $8,000. Write giving experience.

Charles Crum
ROSEDALE'S NURSERIES
400 W. Huntington Dr. Monrovia, Calif.

FOR SALE — Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40c per line (minimum order $4.00). Your ad will be seen by more than 9800 American Nurseryman readers.

WANTED

DISTRIBUTORS
FOR REED FENCING

Choice major distributorships still open for qualified established wholesale houses with men on the road. Reed fencing is a new staple item for all up-to-date garden shops, designers and nurseries — a real money-maker — a must!

Territories open in the Dallas, Houston and Rocky mountain areas and the northwest, midwest, northeast, east central, southeast and south central.

We are the direct importers, and our supplies are manufactured to our own specifications. This means you can sell the best product at the most reasonable prices, with a full-time guarantee. You can be sure of delivery. Our Garden-Craft reed fencing is nationally advertised. Three-color printed sales aids are available. Write or call in person.

RATTANCRAFT OF CALIFORNIA
312 W. 5th St.
Los Angeles 13, Calif.
Tel.: MUtual 6268

FOR SALE

Nursery and sales station comprised of one and one-eleventh acres, new sales office, implement shed, over 200 feet of highway frontage; fully stocked with excellent nursery stock; on Canada's best highway near some of the biggest cities in a fast-growing district. Price $11,000; $5,000 cash. Write to Box 444, care of American Nurseryman.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE

Nursery and landscape business located in western North Carolina. 10 acres, residence, tenant house, stock and equipment. $15,000 cash will handle. Write to Box 440, care of American Nurseryman.

SITUATION WANTED

IN FLORIDA

By a landscape salesman with 40 years' experience. Can make own plans, sell and supervise men. Have already had 2 years' experience in Florida. Now employed by one of the largest nurseries in Chicago. Write Box 447, care of American Nurseryman.

SITUATION WANTED

Experienced wholesaler and retailer, former successful owner, desirous of making contacts to merchandise and advertise nursery stock for firms desiring to expand garden center or sales lots. Write to Box 446, care of American Nurseryman.

SITUATION WANTED

Young man, married, one child. 10 years' experience and graduate of Royal Horticultural Society's school of gardening, Wisley, England. At present supervisor of gardens, Balmoral Club, Nassau, Bahamas. Desires post in United States. Available December. Write to Box 448, care of American Nurseryman.

SITUATION WANTED

Young married man, with eight years' experience growing perennial plants and as a garden center salesman, desires position with future in the north New Jersey area. Phone: Princeton 1-7066 or write:

F. D. HENSLER
R. D. No. 2 Carter Rd. Princeton, N. J.

HELP WANTED

Excellent opening with an old-established firm near Boston, for a landscape salesman experienced in tree work. If interested, give age and all pertinent information in first letter. All replies will be kept confidential. Write Box 445, care of American Nurseryman.

organization, is moving to Ohio, where he will manage the factory being built there to manufacture a number of arborists' and gardeners' tools which he has developed and on which he holds patents.

Eric Walther, retired director of the Strybing Arboretum, in Golden State park, San Francisco, is giving a series of illustrated lectures to horticultural groups in the state, reporting on his recent trip to Europe in search of sources of materials for California arboretums.

Clyde Stocking, San Jose rosarian and past president of the American Association of Nurserymen, told about the 1957-1958 rose introductions at the October 16 meeting of the Rose Study Club of Oakland.

Don Hartman, who with his father is associated with the Leonard Coates Nursery, San Jose, is a member of the Cupertino board of education.

The Saratoga Horticultural Foundation, Saratoga, has obtained the services of Gerd Schneider, a recent graduate from the College of Horticulture at Osnabruch, Germany, as a plant propagator. Mr. Schneider has also had several years of practical experience in horticulture in several European countries. He expects to become a citizen of the United States as soon as he may and to go into horticultural research work.

Dr. Thomas H. Goodspeed, retired director of the University of California's botanical gardens, is touring in Peru and Bolivia. When he and Mrs. Goodspeed, university photographer William Marshall and university botanist Paul C. Hutchinson have completed their studies of the cacti and the orchids in those countries, they will move on to Argentina and Chile to continue studies. Dr. Goodspeed is well known to California horticulturists for his complete knowledge of ornamental plants from all parts of the world.

The Oakland park department held its 13th annual out-of-door chrysanthemum show at Lakeside park the week of October 20. More than 3,000 plants were in flower and on exhibit, including a special show of cascades.

Herman Sandkuhle, Jr., Sunset Nursery, Danville, a past president of the California Association of Nurserymen, discussed trees, shrubs and bulbs for the home gardener at the October 22 meeting of the Pleasant Hill Garden Study Club.

The use of gibberellic acid treatments on plants to correct or reverse the stunting effects of virus diseases is reported as a successful

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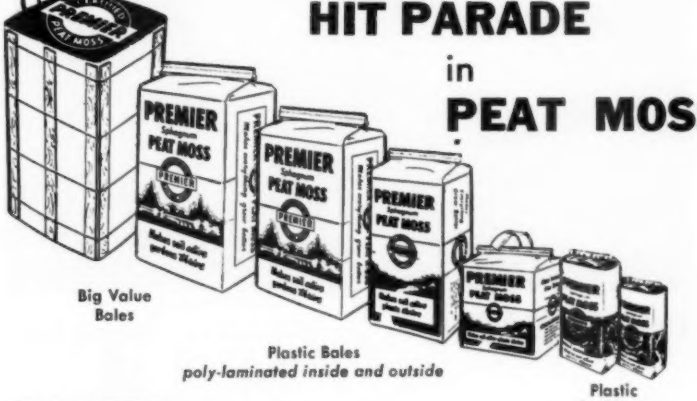

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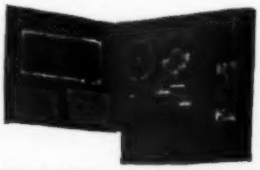

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treatment by Dr. Karl Maramorosch, Rockefeller Institute for Medical Research, New York, N. Y. Dr. Maramorosch inoculated asters, hybrid sweet corn and crimson clover with stunt-causing virus organisms and after six weeks treated them with the acid at 100 parts per million. Untreated or check plants of the same kind receiving the same care were sprayed with sterile water each time the test plants were sprayed with the acid. He reports that reversal of the stunting could easily be noted in as little as 48 hours after the treatments. It was necessary to repeat the treatments only twice to secure what seemed to be permanent results. The untreated plants continued to be stunted and did not overcome the effects of the viruses.

A California wild cherry tree said to be more than 100 years old was honored with a historical marker in Mountain View recently. In pioneer days the tree was officially used as a witness tree and has been used as a survey tree since 1944.

W. B. B.

OREGON NOTES

The Cascade chapter of the Oregon Association of Nurserymen scheduled a meeting October 20 at Cooper's Gardens, Canyonville. J. Vernon Marshall, Marshall Florist & Nursery, is secretary of the group.

Avery Steinmetz, of the Portland Wholesale Nursery Co., Portland, is preparing for a 2-month trip to Australia and New Zealand. He will visit nurseries of the two countries.

Wayne Arnold, Arnold's Clematis Nursery, Milwaukie, recently won the sweepstakes award for horticultural excellence with plants at the Oregon state fair at Salem.

Mrs. Mary Walker, Holgate Nursery, Portland, recently returned from South Carolina, where she visited her daughter and family. During Mrs. Walker's visit, her daughter gave birth to a baby.

Recently at Yakima, Wash., on business was Wayne Melott, Carlton Nursery, Forest Grove, Ore.

Desmond Muirhead, Desmond Muirhead & Associates, landscape architects, Vancouver, B. C., was the speaker recently at the Jesuit high school at Portland.

Both the Oregonian Home and Garden magazine and the Oregon Journal's Northwest Living magazine ran full-page illustrated stories about the new Junay Garden Center at Portland in the October 13 issues. The Home and Garden section on

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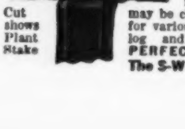

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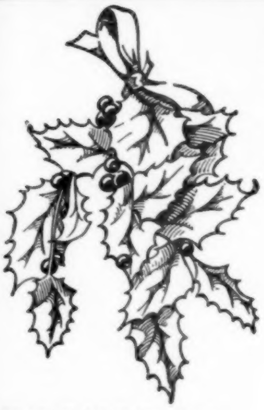

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TEUFEL'S "HYBRID" PREMIUM GRADE

SELECTED DARK GREEN HEAVILY BERRIED SPRAYS

10 lbs. per carton .... **$ 7.50**
25 lbs. per carton, long **18.75**
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SELECT GRADE

GLOSSY green foliage with lots of red berries

$6.50 per 10-lb. carton — **$60.00** in lots of 100 lbs.

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$10.80 per carton of 12 1-lb. boxes	berried green	**$13.50** per carton of 24 ½-lb. boxes
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thornproof transparent bags

Approx. ½ lb. each—berried green holly, **$16.00** per carton of 25 bags

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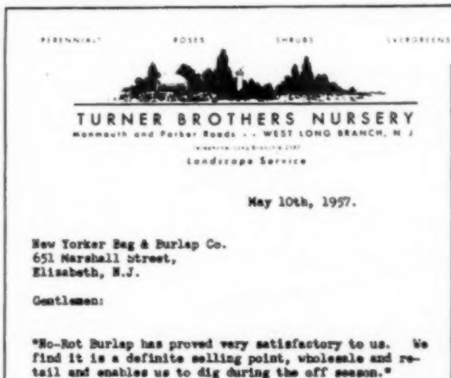

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651 Marshall Street,
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Gentlemen:

"No-Rot Burlap has proved very satisfactory to us. We find it is a definite selling point, wholesale and retail and enables us to dig during the off season."

Very truly yours,

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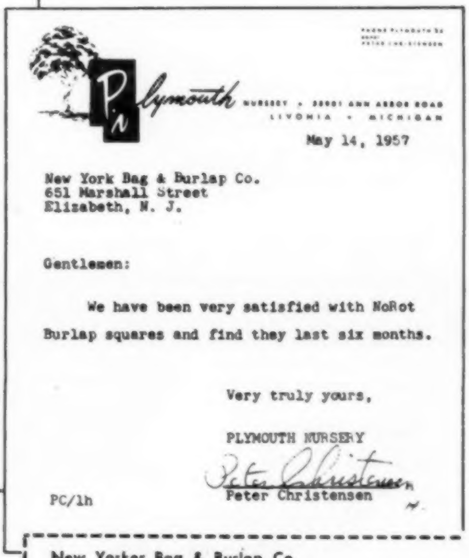

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UNION PLASTIC POT!

During recent months, growers in many parts of the country have asked for a 7" x 7" pot for some varieties of plants. Now...Union presents it as the latest addition to the Union Line of Plastic Flower Pots.

Filling a gap between the 6-inch and 8-inch sizes, this new 7-inch Pot provides ample room for the roots of many of the larger and more luxuriant varieties. Available in all standard colors as well as marbleized utility, it's a size that will meet the needs of growers from coast to coast.

If you operate a gift shop or garden center, write for the new Union gift shop catalog showing a complete line of plastics for home and garden.

"A size for every growing need!"

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Peat Moss **Menne-Pots**
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the same day carried an article about Bradford Gardens, with pictures of Mr. and Mrs. F. E. Bradford.

California nurserymen visiting Portland and vicinity recently were Van Harrison, L. E. Cook Co., Los Angeles; Frank Ogawa, Oakland; Dick Oki, Oki's Nursery, Sacramento; Bill Guirki, retail nurseryman, Walnut Creek; Tommy Yonemura, ABC Nursery, Gardenia; William Takeda, Mayfair Nursery, San Jose, and Isador Glaego, West Nursery Co., San Leandro. All were in the area purchasing stock.

WIN NEW MEXICO AWARDS

Awarded recently at the New Mexico College of Agricultural and Mechanical Arts, State College, N. M., were the first two scholarships from a fund established by the New Mexico Association of Nurserymen in memory of the late Dan Carpenter, New Mexico nurseryman. The first recipients of the awards ($100 each) were Bernard Corley, El Paso, a junior, and Clarence Kloepfer, Albuquerque, a sophomore. The Carpenter memorial scholarships will be awarded on the basis of scholastic achievement and need to students specializing in the field of ornamental horticulture.

TULSA NURSERYMAN DIES

Louis Parrish "Wings" Cummings, 66, co-owner of the Owasso Landscape & Nursery Co., Owasso, Okla., died October 9 in a Tulsa hospital after a lengthy illness. A resident of Tulsa since 1920, Mr. Cummings was a barnstorming airplane pilot before he entered the landscape business about 1924. He landscaped Tulsa Memorial park as well as several shopping center sites in the city. Survivors include the widow, Florence, and a son.

CONTRACTOR DIES

Joseph L. Hodach, 47, landscape gardener, of Milwaukee, Wis., died of a kidney ailment at Mount Sinai hospital October 20. He was the owner of Bluemound Landscape Contractors, Milwaukee. Mr. Hodach was chairman of the Master Landscape Gardeners' Association and a member of the Eagles' Club. Among the survivors are the widow, Catherine, and two sons. D. A. K.

ENTERING the wholesale nursery trade is William H. White III, who will grow general nursery stock at Charlottesville, Va.

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Superior Strength Sturdily constructed, the MENNEPOT withstands hard handling.

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Regular 10 lbs., Heavy 25
Regular Weight Price
100..$2.75 1000..$25.00
Heavy Weight Price
100..$3.75 1000..$35.00

Size 0½ Top .. 5 ins. Bottom 4 ins. High . 5 ins.
Weight per 100
Regular 13 lbs., Heavy 30
Regular Weight Price
100..$3.50 1000..$32.50
Heavy Weight Price
100..$4.50 1000..$42.50

Size 1 Top .....6 ins. Bottom ..5 ins. High ....6 ins.
Weight per 100
Regular 15 lbs., Heavy 35
Regular Weight Price
100..$4.00 1000..$37.50
Heavy Weight Price
100..$5.25 1000..$50.00

Size 2 Top .....7 ins. Bottom 5¾ ins. High ....9 ins.
Weight per 100
Regular 24 lbs., Heavy 55
Regular Weight Price
100..$4.50 1000..$42.50
Heavy Weight Price
100..$5.75 1000..$55.00

Size 3 Top ...8½ ins. Bottom 6½ ins. High ....9 ins.
Weight per 100
Regular 30 lbs., Heavy 70
Regular Weight Price
100..$5.00 1000..$47.50
Heavy Weight Price
100..$6.25 1000..$60.00

Size *4 Top ....10 ins. Bottom ..8 ins. High ...10 ins.
Weight per 100—120 lbs.
100..$11.00
500..$52.50 1000..$100.00
*Heavy Only—
For trees and shrubs.

Size *5 Top ....12 ins. Bottom .10 ins. High ...12 ins.
LG. POT
Weight per 100—250 lbs.
20..30c ea. 100..$27.50
500...$125 1000...$225
*Special for extra-heavy trees and large shrubs.

Size Pan Top ...8½ ins. Bottom 7½ ins. High ....5 ins.
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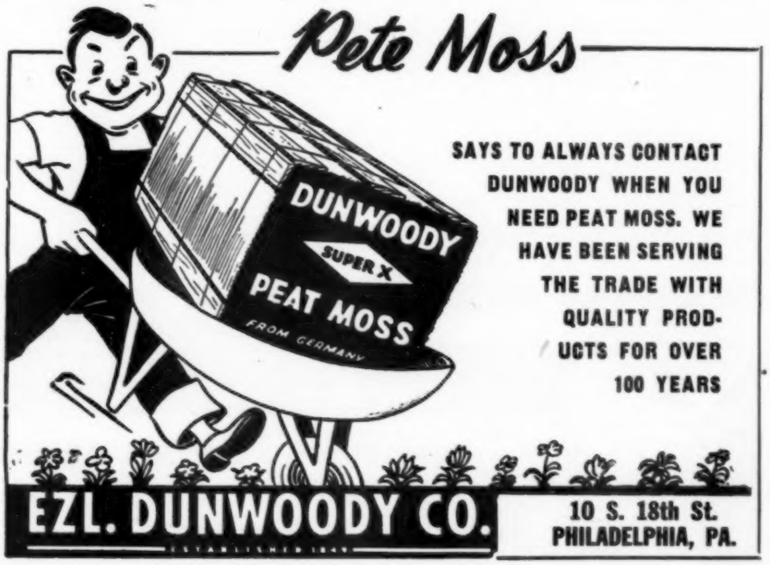

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PHILADELPHIA, PA.

ON A BUSMAN'S HOLIDAY

[Continued from page 13]

fishing, excellent facilities are provided, and information can be obtained at the ranger station. There are many free camping sites, and numerous lodges and hotels are open from early June to mid-September. What a place to spend a few weeks' relaxing!

Other Attractions

As the shadows thickened, we stopped at Estes park for some refreshments and then drove on to the attractive Corral restaurant, at Loveland, for a delicious fresh mountain trout dinner. We thought our journey had ended, but Professor Drage and his wife had something else planned as a conclusion for our day's entertainment.

It was a beautiful moonlit evening as we continued through Loveland about three miles east to the brightly illuminated Cloverleaf dog racing track. This was our first attendance at a greyhound race. I must say that this was a novel experience and fully convinced me, after a few tries, that I, like many others, know little about what to expect from temperamental dog flesh! My wife agrees with that, too!

We returned to Fort Collins, tired but happy in the thought that we had had one of the most thrilling experiences of our trip so far, thanks to Professor Drage and his wife. We

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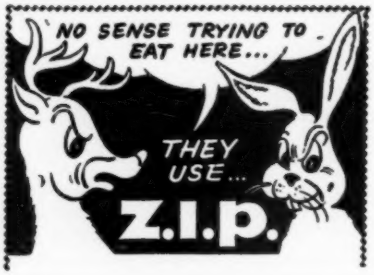
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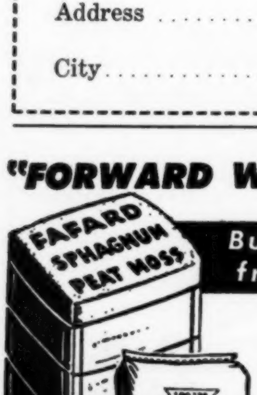

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bade them a reluctant good night and returned to our motel.

Early the following morning we were en route to Cheyenne, Wyo., home of the famous Cheyenne Frontier Days celebration. Cheyenne is called the crossroads of the nation because it is at this point that the north, east, south and west highways, railroads and airlines intersect.

When we crossed the border into Wyoming, a large sign bade us welcome. It read, "Welcome to Wyoming, vacation paradise of the West. Wyoming—land of majestic contrasts, eighth in size, 47th in population, elevations up to 13,785 feet, a land of high altitudes and low multitudes, rolling plains and rugged mountains, and space to enjoy them all."

Cheyenne Field Station

Cheyenne, the capital of Wyoming, is the headquarters for the extensive cattle and sheep interests of the state. We spent a little time in the city, acquainting ourselves with some of the grocery stores, which we later found predominating in the Pacific northwest area. We bought a box of California strawberries for 29 cents, and were they delicious! We inquired as to the location of the United States Department of Agriculture horticultural field station at Cheyenne and were directed to go through the grounds of the air force station, located in that city, in order to reach our destination.

When we arrived at the station the temperature was a chilly 58 degrees, compared to a high of 82 the previous day at Fort Collins. One of the employees working at the experimental greenhouse directed us to Dr. A. C. Hildreth, superintendent in charge.

The Cheyenne station, under Dr. Hildreth's leadership, has over a period of years assembled for test under its short, cold, dry growing season, many plant introductions from abroad, as well as a collection of native and commercial types. An interesting brochure provides some idea of the content of the collection at Cheyenne. This list includes woody plants, fruit varieties (apple, cherry, pear and plum) and herbaceous perennials. Dr. Hildreth was generous with his time in providing a tour of the grounds and in supplying me with information concerning the experiment station as a whole.

It is interesting to note the latest freeze in this area is in July and the earliest freeze is in late August. Normally there is a 15-inch annual

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BROWNELL'S *DeLuxe Olde English* HOLLY

Heavy with Red Berries

Farm Fresh and Oregon grown for the extra beauty that customers demand. Carefully processed and packaged to reach you and remain in fresh perfect condition. *Our name on every box and 40 years of holly-growing experience stands behind Brownell's unsurpassed quality!* Variety of Holly packages for easy handling and quick turnover.

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rainfall. Two hundred acres, out of 2,139 at the station, are devoted to fruit, ornamental and forestry plants. Cheyenne is on the fringe of the area which has the highest incidence of hail in the United States. This is a definite factor in fruit production for that area. The surest fruit, from the production standpoint, is the sour cherry.

Test Plantings

The experiment station is located at an elevation of 6,200 feet, and this, in part, is reflected in the excellent color of the evergreens. Dr. Hildreth stated that yew variety tests were started in 1954. At present there are six varieties of Taxus cuspidata, 10 varieties of Taxus media, as well as T. brevifolia, T. canadensis and T. chinensis in the experimental plots. It was interesting to note that several varieties of taxus used for ornamental purposes in Pennsylvania were to be found in this collection. Many of the plants, incidentally, are being grown in plant containers. We journeyed to the hedge material plantings where 115 species were under observation. From this point we directed our attention to the many varieties of flowering crab apples.

In 1937, experimental plots in

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One U.S. Gallon
Cabot's
Black
Tree Healing Paint
"The Friend of the Forester"
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strawberries were established. The two best strawberries at present are Arapahoe and Radiance. Out of 9,000 varieties, 500 selections have been made. Dr. Hildreth stated that some work has been done with vegetables.

There are 1,300 fruit varieties under test in an irrigated orchard. There are no diseases, and hence there is no necessity for spraying. The main interest in the fruit varieties is their use in the home orchard.

Shrubs

Among the shrubs the native buffalo berry has been suggested as a good specialty plant. It provides not only food for game but also fruit that can be utilized as jelly for home consumption. There is an interesting collection of Russian olives from Europe and Asia. In 1933, Dr. Hildreth stated, he began use of plant containers and has used them since that time to good advantage.

Some cantaloupe breeding has been started under glass. There is a walnut grove of 1,200 trees. Some of the hardiest of the English walnuts show possibilities and should be ready to bear within one or two years. Two other interesting plants are the bantam pear from Minnesota, called "Patent 1200" and a Russian pear known as Dr. Budd. An extensive group of dry-land windbreaks is being tested.

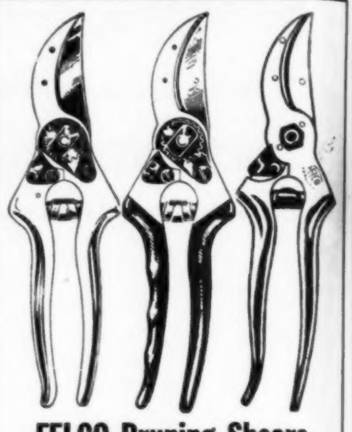
Some interesting experiments among the flowers center on hardy phlox plots, where breeding for resistance to iron deficiency (chlorosis) is being carried on. New hybrids of the rose species are being tested, and experimental work with dianthus is being conducted. There are 26 or more hardy varieties of chrysanthemums which have been developed since 1932. The original plants come from many states and Canada.

The Cheyenne horticultural field station has introduced 10 outstanding varieties of chrysanthemums, namely: Alabaster Gold (1954), Dakota (1947), Flicka (1947), Hidatsa (1947), Ogallala (1941), Osage (1940), Overley (1952), Unita (1939) and Waku (1947).

The large lath house contained many plants in various sizes, and in some instances these plants were familiar to me as being used by Pennsylvania nurserymen.

After several hours of intensive study of general conditions under which plants were being grown, my wife and I started out for Laramie, the home of the University of Wyoming.

Midway between Cheyenne and Laramie, on U. S. Highway 30, a tree growing in solid rock is a popu-



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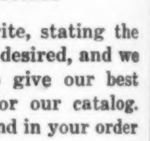

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lar attraction. Signs nearby read "The original line of the Union Pacific railroad passed this point, and pioneers say that the surveyors were ordered to deflect the route slightly to avoid destruction of this freak. It is said that early-day firemen on passing trains, recalling the tree's necessity for moisture, drenched the tree daily with a bucket of water."

Continuing toward Laramie we came upon our first evidence of frontier days a Conestoga wagon—standing beside the highway with two horses grazing in the pasture below. Two cowboys in native attire were resting under the shade of a lone tree, with a small mongrel dog snoozing beside them. A short distance later we observed two Indians, in gaily colored costumes, riding horseback across the plains.

Medicine Bow Forest

As we entered the Medicine Bow national forest, another sign identified the mountains as the Wyoming Sherman mountains. The reason for the nearly level surface of the Laramie range flat top, characteristic of the range, is leveling during an ancient erosion cycle. The bedrock here is granite, a crystalline rock made up of pink feldspar, glossy

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quartz, black mica and hornblende which originated deep in the earth's crust. There, a billion years ago, the peculiar rock forms of the Sherman mountains were controlled by three sets of points, or planes, of weakness, where weathering has cut and divided the rock into large blocks with rounded corners and has enlarged the planes, resulting in irregular, blocky rock masses of vermilion color, often capped by balanced rocks.

Even with clouded conditions the majestic beauty of the panorama was stupendous.

We reached the summit, near Laramie, at an elevation of 8,835 feet. This is considered the highest point along Route 30. At this viewpoint we surveyed the landscape and took numerous pictures. Other travelers were likewise taking pictures of the late summer beauty of the countryside. We arrived late at Laramie, where we registered at a comfortable motel, had dinner and retired early.

University of Wyoming

Laramie is the shipping headquarters for the extensive ranches and a railroad center with a reicing unit, yards for feeding livestock in transit, a cement factory that uses local natural resources in its production and a place for treating railroad timbers. This is a pretty frontier town, with an attractive campus for the University of Wyoming, which I delayed viewing until the following day.

The next day, after an early breakfast, my wife took an opportunity to window shop while I went to the University of Wyoming campus. Here I found, as at many other universities and colleges, an extensive construction program in progress. Most of the new buildings, already in operation, had been planted recently, under the supervision of Otto Dahl, chief gardener at the campus. Otto, a German emigrant, has been in America for five years and had studied garden architecture in Berlin. He is an affable chap, very interested in his work with ornamentals and has, in addition to the general landscape work, added many touches of color, through the medium of annual flowering plants, to most of the surroundings of the many new buildings on the campus. Otto told me that this beautification was made possible through the cooperation of the grounds and buildings department. He provides cut flowers each week to the various departments at the university and is hopeful that

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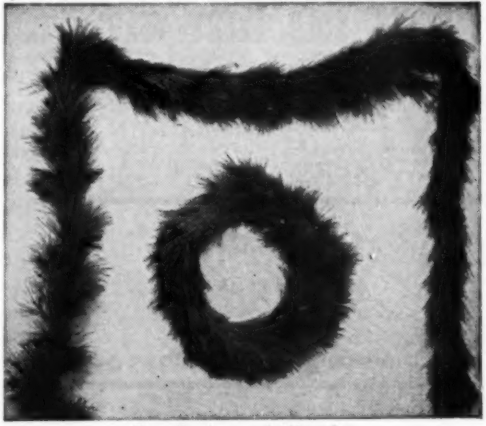

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additional greenhouse space will be afforded for the production of many more flower crops. He stated that climate limitations made it impossible to go into an extensive display of many of the early or late-blooming flowers, due to the fact that the last frosts occur around June 20 and the early frosts about the last of August.

University Extension Work

I visited the extension service mailing room, in the new Agricultural building, and obtained several interesting publications, outstanding among which are: "The Beautification of Home Grounds—a Project for Wyoming 4-H Clubs." "Fall Care of Plants" and "Transplanting Native Plants."

These mimeographed articles were written by W. O. Edmonson, extension forester and horticulturist. The material is written in a newsy manner which provides ample information for those concerned. I have been amazed at the efforts made by the horticulturists of the various states to provide information designed for the 4-H boys and girls. Nurserymen, too, might take advantage of the information given through these educational media and direct their thinking toward the

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youth element as well as adults. Not too many years will elapse before these boys and girls will be potential customers. Herein is a challenge that cannot be denied!

Many of the extension personnel I had hoped to see were engaged at their respective duties in various sections of Wyoming, and, unfortunately, I did not have an opportunity to talk to them.

We left the Agricultural building to look at the new statue of Benjamin Franklin, placed on the campus on the occasion of the 250th anniversary of his birth. Surrounding the base of this beautiful piece of art were red and salmon geraniums, flanked with lobelias—an interesting combination. The campus contains many large trees, some of which were beginning to show color, due to early frost.

Headed for Yellowstone Park

We drove around Laramie and were impressed with the attractiveness of this fast-growing community, which has long been known not only for its hunting and fishing, but also as a skiing center. We spent a short time with Mrs. Clarence Gorup, who was a member of the extension staff in Pennsylvania a few years ago, but is now a Laramie resident. Another busy day had gone by and we were ready to start on our trip early the following morning, in the direction of Yellowstone national park.

Saturday morning, on a cloudy, cool day, on Route 30, we came upon another Conestoga wagon, 19 miles west of Bosler. Two husky mules, two cowboys and a dog provided another picturesque, frontier-like sign of the old west. To our left we could see the mountain peak against which a large plane had crashed, killing all aboard, some weeks prior to our visit to that section. Nothing but a dark stain against the mountain peak was visible—mute evidence of this tragic air journey.

We next stopped at the little town of Medicine Bow, home town of the hero of the famous western novel, "The Virginian." Here is the site of a monument to Owen Wister, the author, and the gateway to one of the finest and largest recreational areas in the state. A short distance from there, at Como Bluff, is the strangest building in the world, the only building in the world made of dinosaur bones. A total of 5,796 bones, weighing 102,116 pounds, are in its walls. According to information supplied by the curator, Edwin R. Boylan, about 100 or 200

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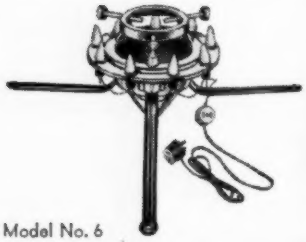
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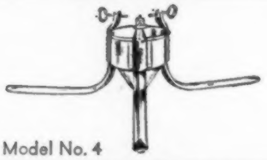
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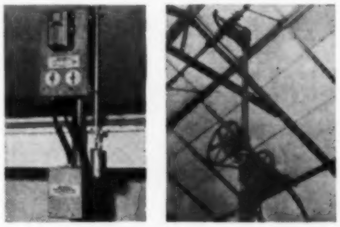

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million years ago these bones, now petrified, formed the skeletal framework for the largest land creatures known. The nearby fossil cabin and the dinosaur graveyard itself were featured by the late Robert Ripley in his syndicated "Believe It or Not" columns.

The Uranium Country

A half hour later we left, to move on to the town of Rawlins, headquarters not only of sheep and cattle interests, but mining as well. It was in this section that we stopped to pick up pieces of various-colored rock, some of which contain limited quantities of uranium ore and, we hope, Wyoming jade. This town has an attractive park, excellent recreational facilities, including tennis courts, and the only tree-lined street we had observed for over 60 miles. Spanish-style stucco architecture predominated. At this point we stopped to partake of ice cream and then moved on towards Lander, our destination for Saturday night.

Natives told us to observe Jeffrey City, site of the first uranium mine in the United States. I expected to see a village of modern homes, but, instead, the majority of homes were of the trailer and mobile variety. Again we stopped to add more stones to our collection and then moved on

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rapidly to Lander, where rails end and trails begin. This is the site of Fort McGraw and Old Camp Brown, noted in the frontier days as the site of much conflict between the red man and white man.

The snow-capped mountain peaks, game-filled forests and excellent fishing haunts are within a short riding distance of this thriving little village. For the second time on our trip we decided to stay at the local hotel. The unique coffee shop and lobby were filled with Indian lore. When we paid our bill for our sumptuous meal we were surprised to receive, for the first time, silver dollars instead of the conventional dollar bills, in change. We later found out that we could use some of these silver dollars in a different way than for payment of legitimate expenses.

The Wild and Woolly

After dinner we decided to see what the wild and woolly west had to offer on a Saturday night. Except for the attire of the local people, mostly cowboys, with some Indians, Lander was like any other normal American village. By 11 o'clock the town was quiet and most persons had retired for the night. Sunday morning we left, after an early breakfast, and saw many people on their way to their local churches.

Our next destination was Yellowstone national park. Many small rural churches in the wide-open plains had a few cars surrounding them as we journeyed westward. We saw our first apiary, near the town of Dubois, where we stopped for lunch. To the north of us towered Indian peak and Wiggins peak. In the distance we could begin to see the Tetons, gateway to Yellowstone. High winds gave us our first experience with Wyoming dust storms.

As we approached the Shoshone forest, we began to experience the sharp curves on the highway. Wandering cattle, wild horses and mules could be found at the most inconvenient places along the narrow highways. Truly we were in the wild and woolly west! We stopped to take some pictures of range cattle, browsing along the mountainside.

We continued through the picturesque valleys, reaching the entrance to Yellowstone at 3:25 p. m. We were met at the entrance by the forest ranger, who accepted our $3 entrance fee and courteously wished us well as he presented us with information pertaining to the vast and beautiful park and, also, a litter bag. We had our first experience of see-

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No. 2	9½ ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	7.25	69.50
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00	8.25	78.00
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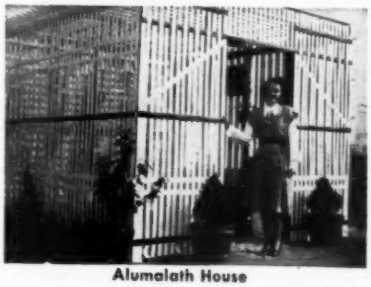
ing the local hitchhiker, sitting nonchalantly along the highway leading to the Old Faithful hotel. The hitchhiker? A big brown bear, who showed by his expression and size that he had nothing to fear about being unfed. More about these critters will be told in the next article.

PROPAGATION HANDBOOK

A timely horticultural publication is the new "Handbook on Propagation" issued by the Brooklyn Botanic Garden. Nurserymen may find the work of special interest because of the accent placed on trees, shrubs and perennials in the various articles making up the handbook. Of 17 contributors whose names appear in the table of contents, a half dozen will be familiar to readers of the American Nurseryman as horticulturists who have written on their specialized interests for this magazine. Lewis F. Lipp, horticulturist, Holden Arboretum, Mentor, O., is the guest editor.

Among the topics discussed are plant hormones, mist propagation, use of plastics in propagation, rootstocks for grafting fruit trees, grafting and budding woody plants, propagating crab apples and various aspects of growing plants from seeds



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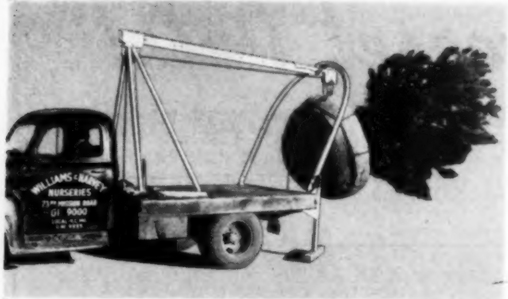

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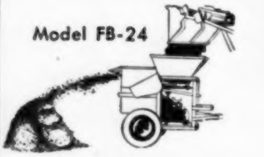

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and by layering, with special chapters on difficult subjects. A bibliography of books on propagation lists almost a score of works.

The 160-page handbook contains 100 excellent illustrations, both halftones and line drawings, including several how-to-do-it series. Printed on book paper, with a paper cover, the handbook is available for $1 from the Brooklyn Botanic Garden, Brooklyn 25, N. Y.

NEW T. A. N. UNIT URGED

During the recent convention of the Texas Association of Nurserymen at San Antonio, a group interested in the formation of a Texas garden center association as a unit of the T. A. N. chose a committee to discuss further the need for such an organization and to draw up a draft of a constitution and bylaws. Those named were as follows:

Steve Dodd, Cabell's Nurseries, Dallas, chairman; Charles Palmer, Palmer's Nursery, San Antonio, region I; Sterling Cornelius, Cornelius Nurseries, Houston, region II; Edward Teas, Teas Nursery Co., Bellaire, region II; Ray Breedlove, Breedlove Nursery, Tyler, region III; B. B. Blalock, Blalock Nursery, Dallas, region IV; Bill Biggs, Wolfe Nursery, Inc., Stephenville, region V; L. J. Hilscher, Fort Worth, region V, and James Walker, Walker Nursery, Midland, region VI.

The purpose of this organization would be to assimilate and distribute information pertaining to garden center operations and to educate the public, as well as those engaged in the various phases of the nursery industry, regarding needs, services and operations of a garden center.

The association would be composed of firms actively engaged in the operation of a garden center and would be formed within the framework of the T. A. N. Meetings would be held during the T. A. N. convention and annual short course at the Agricultural and Mechanical College of Texas, College Station.

The committee plans to meet a day before the January session of the T. A. N. board of directors and present its idea to the board for consideration.

ALL-AMERICA GLADIOLUS

All-America Gladiolus Selections announces a new member of the All-America gladiolus family—Emperor (plant patent No. 1655). Emperor is the only variety selected for the 1958 award, and it joins the four previous award winners, Royal Stewart, Caribbean, Appleblossom and Maytime,

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to bring to America's home gardeners the "cream of the crop."

Emperor is an origination of Carl Fischer and Ralph Baerman, widely known throughout the gladiolus industry for their hybridizing success. A true aristocrat, this flower of regal purple with an ermine-white throat presents a colorful display. Emperor makes majestic spikes, with seven or eight of its round, recurved florets open at one time. The plants are unusually robust, and the spikes consistently tall and straight. Some test gardens report it as the tallest variety ever grown, often reaching over six feet in height.

The rich, distinctive color of Emperor, its health and vigor and ease of growing are characteristics which make it an ideal flower for the home garden. It has already distinguished itself on the show table as a seedling, and it possesses the qualities of a champion.

ALL-AMERICA MUMS

The first All-America Mum Selections winners will be announced in February, 1958. The All-America Mum group was formed in 1954, and chrysanthemum trials were started in the spring of that year. Since only one variety was selected for the expected first introductions in 1956, the announcement was held, with the consent of the entrant, until the end of the 1956 trials. As

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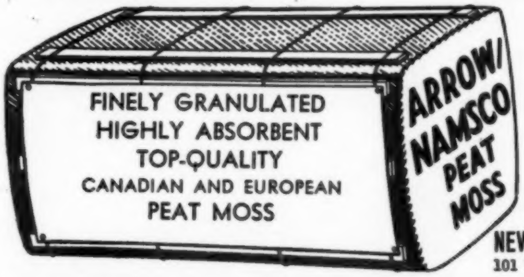

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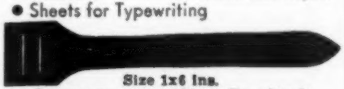

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PLANT PROPAGATION, by Mahlstede and Haber. New techniques of propagation. 413 p. (1957) **$7.50.**
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a result there are four varieties, each a different color, ready for the first announcement.

For testing potential winners, 10 plants of each new kind are furnished each of the 15 chrysanthemum judges, with trial grounds in as many sections of the country. More new trial locations with accredited judges will be added, as trial grounds may be developed in climatic zones and sections not already represented. About 20 locations are under survey and consideration.

The proposed new varieties are compared with the best similar kinds and colors already being offered and must be of the highest rating—distinct, superior and answering a real need and desire—to be considered for an All-America Mum award.

Judgment of a variety is based on 12 main characteristics by each judge, according to the entry's behavior at his location and under his soil and climatic conditions. Scoring covers two seasons, with a check between for winter hardiness. The 100 points are divided as follows: Habit, 11; vigor, 12; foliage, 5; disease resistance, 5; time of bloom, 8; flower form, 7; substance, 12; floriferousness, 12; distribution of blooms, 5; duration of blooming, 5; color full open, 10, and color finishing, 8. In addition, for special novelty, up to 5 points is added. For lack of hardiness, up to 10 points is subtracted. All-America Mum evaluations are based on the average scores of all the judges.

NEW BULB COMPANY

Peter Wiegman, formerly associated with Freriks & Co. of Holland, has started his own company, Wiegman Bulb Co., at 547 Boston Post road, Marlboro, Mass. The new firm will handle a complete line of both prepackaged bulbs and bulbs for counter sales in garden centers.

MEMBERS of the Horticultural Society of New York recently toured the Long Island nurseries of Martin Viette, Muttontown; Bagatelle Nurseries, Huntington Station, and Thomas Flower Mart, Syosset.

ROBERT F. KROSCHEL announces that the mailing address of his nursery at Irving Park road and Route 83, Bensenville, Ill., has been changed to 1120 West Irving Park road, Bensenville. A new sign and salesyard and an enlarged parking area are recent improvements made at the nursery, begun as a hobby in 1950.

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PLANT PATENTS

The following plant patents were issued recently, according to Rummler & Snow, Chicago patent attorneys:

No. 1646. Nectarine tree. Frederic W. Anderson, Merced, Calif. A new and distinct variety of nectarine tree, which has a relatively low winter chilling requirement and bears large, firm, yellow-fleshed, freestone fruit having a smooth-surfaced yellow skin largely overspread with a bright red shading from orange. The fruit is characterized by a ripening period about 10 days later than that of the Early Sun Grand nectarine, about one week earlier than that of the Sun Grand nectarine and approximately coincident with that of the Star Grand nectarine. The tree is characterized—in comparison with the Early Sun Grand nectarine—by fruit that is larger in size, firmer of flesh and of better eating quality, but with less red exterior color, and by leaves with globose instead of reniform glands. It is further characterized—in comparison with said Sun Grand nectarine—by fruit which is larger in size but shorter axially, with less red exterior color, flesh that is not so firm but of better eating quality and sweet instead of bitter kernels. It is further characterized—in comparison with said Star Grand nectarine—by the aforesaid lower winter chilling requirement, leaves with globose instead of reniform glands, flowers with large instead of small petals and kernels which are sweet instead of bitter.

No. 1647. Hardy peach tree. William W. Moore, Sandy Spring, Md. A new and distinct variety of peach tree, characterized as to novelty—in comparison with the Elberta peach tree variety (not patented)—by its hardiness and resistance to cold and the late time of ripening of the fruit.

No. 1648. Rose plant. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, a corporation of California. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its vigorous and spreading habit of plant growth; graceful, urn-shaped buds and high-centered flowers; good flower size; good petal substance and attendant long-lasting qualities of the flowers, and the distinctive orange-scarlet general color tonality of the flower.

No. 1649. Peach tree. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, a corporation of California. A new and distinct variety of peach tree of the yellow-fleshed freestone fruit-bearing type, characterized particularly as to novelty by its vigorous growth and consistent production of large crops each season; the large size of its fruit; the attractive red blush on the outer surface of the fruit skin, particularly on the side exposed to the sun, and its relatively long maturation period, averaging approximately four or five days longer than that of the variety July Elberta (plant patent No. 15). It is further characterized by its low to medium winter chilling requirement, which falls between that of the variety

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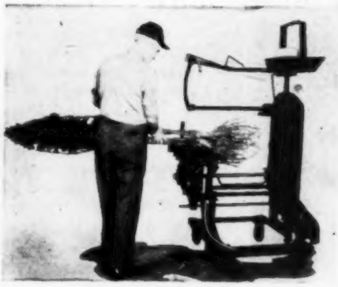

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Springtime (plant patent No. 1268) and Redwing (plant patent No. 621) and is even lower than that of July Elberta; its resultant earlier blossoming habit, and its earlier time of ripening, averaging from five to 10 days earlier than that of July Elberta and falling from early July to mid-July in southern California.

No. 1650. Rose plant. Albert Norman, Wisteria, Normandy, Surrey, England, assignor to Armstrong Nurseries, Inc., Ontario, a corporation of California. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by its free-branching and consequent free-flowering habit, abundant foliage, attractive deep-colored and glossy wood and foliage, firm and upright stems and the distinctive bright yellow color of its flowers, with uniform coloring of the flower petals throughout the flowers.

No. 1651. Apricot tree. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, a corporation of California. A new and distinct variety of apricot tree, characterized particularly as to novelty by its medium to large fruit, the relatively high red skin color on the side of the fruit exposed to the sun, its slightly higher winter chilling requirement than that of Royal apricot (not patented) and its habit of blossoming from three to 10 days later than Royal apricot in southern California. It has a shorter maturation period than Royal apricot, and an earlier ripening habit, its ripening period ranging from one to two weeks earlier than that of Royal apricot in southern California.

No. 1652. Nectarine tree. Herbert C. Swim, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, a corporation of California. A new and distinct variety of nectarine tree of the yellow-fleshed, freestone, fruit-bearing type, characterized particularly as to novelty by the large size of its fruit; the high red blush on the skin of the fruit, particularly on the side exposed to the sun; its relatively low to medium winter chilling requirement as grown in southern California, falling between that of Panamint nectarine (plant patent No. 1100) and that of Silver Lode nectarine (plant patent No. 1023), and by its mid-August ripening period, falling from four to five weeks after that of the aforementioned Panamint nectarine variety.

No. 1653. Azalea plant. Maurits L. V. Van Zanten, Lynden, Wash. The new and distinct variety of azalea plant, characterized particularly by its early-blooming and forcing qualities, its compact and bushy form, its large clusters of buds, its large and profuse flowers of cherry red color and its strong growth.

All patents prior to plant patent No. 430 have expired and have become public property.

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A new feature of the Braniff airport, Dallas, Tex., is a small, enclosed garden, 5,000 square feet in size, which is viewed through a glass wall of the main foyer. The work of J. Donald Walp, Dallas landscape architect, the garden was designed to provide a serene contrast to the activity about the terminal. Enclosed with pierced tile screening

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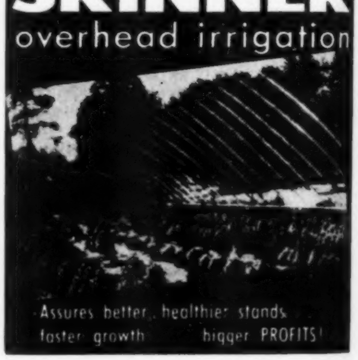
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and curved, putty-colored brick walls, the plant materials used are chiefly native evergreens and cacti, typifying the southwest.

A ground cover of gravel, rocks and sand laid in an Oriental design adds an exotic note. Focal point of the garden is a sculptural piece, symbolizing flight and aviation, which is set on a pedestal rising from a low, graduated spiral wall.

Mr. Walp received a master's degree in landscape design from the University of Michigan, Ann Arbor, and served overseas with the corps of engineers in the United States army, achieving the rank of major. After spending three years designing state and regional parks for the national park service in North Dakota, he moved to Texas and was associated with the Lambert Landscape Co., Dallas, before opening his own office five years ago.

INTRODUCE NEW FELICIA

The first new plant variety to be introduced as a development of the research program of the Los Angeles State and County Arboretum, Arcadia, Calif., is Felicia (Agathaea) Santa Anita, a large-flowered form of the blue African daisy, which for years has been one of the best perennials for California gardens. Now ready for release by the arboretum, Santa Anita is said to have large, clear blue, single flowers measuring up to two inches across—roughly twice the size of the common type—produced freely on mounding plants. The arboretum states that limited trials indicate that Santa Anita is adapted to both the hot, interior areas and the coastal belt of California.

The parent of the new clone is a Felicia amelloides seedling, which was treated with colchicine solution to induce chromosome changes. Another clone developed through the same research that produced Santa Anita is similar in every way, except for a much darker color. Bearing stiff, wiry stems discribed as being long enough for cutting for small bouquets, Santa Anita does not grow too tall and requires a minimum of trimming, according to the arboretum's announcement.

Propagation of this felicia is said to be easy from 7-inch tip cuttings taken in late fall, when they are easier to keep in good condition until rooted. At the arboretum, mist propagation has proved highly successful. Limited quantities of rooted cuttings of Santa Anita are now being sold to nurseries by the arboretum.

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STAN SAYS

Oriental Cherries

The Oriental cherry Taizan-fukun grows about 20 feet high. I used it on one of my jobs, and, though it is a fair upright cherry, it did not strike me as anything exceptional in the way it performed in that particular planting.

The Oriental cherry Amanogawa is one of the indispensable trees for landscape work. It flowers all the way up its vertical stems and seldom grows over four feet in diameter. The double blossoms are pink as they open but soon change to white—it is really outstanding and fits into many places because of its narrow upright growth. One should not buy large-size specimens, as the tree has terrific roots; nor should one try to ball it. This tree is, however, definitely subject to scale. It grows to a height of about 20 to 25 feet. It was in full bloom at Pittsburgh April 28, 1957, and the blooms last about a week, depending on the prevailing weather.

The Oriental cherry Kwanzan is one of the best double pink cherries, blooming the same time as the Amanogawa (at the end of April). These trees should be planted 35 feet apart, since we have trees of a 30-foot spread and they are still growing. The trunk diameter of a tree with a 30-foot spread is 11½ inches—quite a tree.

Random Notes

I imagine one could write for weeks on the different varieties of mint. I saw many varieties at the world's fair at New York city some years ago, and just recently my brother in western Ohio said that he had come across a "pineapple mint." Sounds interesting. (Since writing this I have sampled the mint and find it is true to its name.)

The best way to use cow manure is to get it fresh from the stable (or feed lot before a rain) and soak it in large garbage or ash cans. The resulting liquid may be applied to roses, azaleas, kalmias, rhododendrons and other special plants that are to be brought to the height of perfection. An ailing rhododendron that has puckered leaves in warm weather can sometimes be brought back to full vigor with regular applications of liquid manure. Of course, if an azalea or rhododendron is planted too deep, no amount of effort will restore its health unless the plant is raised to its proper level.

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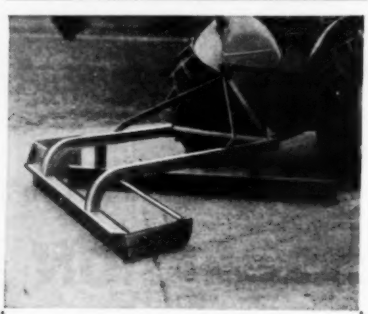

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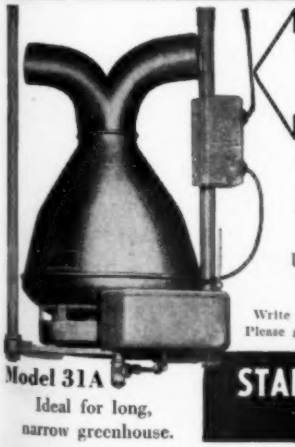

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Connecticut Arborists' Short Course

By Harold O. Perkins

The fourth annual short course for arborists was held October 3 at the University of Connecticut, Storrs. Approximately 100 men were in attendance, including arborists, highway maintenance directors, superintendents and representatives of utility parks and arborists' supply companies.

Dr. Sidney Waxman, of the University of Connecticut plant science department, opened the meeting with a talk on "Day Length and Its Effect on Trees." He pointed out that day length has been effective in various phases of growth of trees and shrubs. Subjecting plants to long days prolonged growth, prevented the onset of dormancy, broke summer dormancy of both flower and vegetative buds, delayed fall coloration and leaf abscission and increased the number of roots initiated on cuttings. Dr. Waxman stated that short-day treatments caused many plants to stop growth completely, hastened fall coloration and leaf abscission and decreased the number of roots initiated on cuttings.

E. P. Wyman, assistant professor of forestry, University of Connecticut, showed a motion picture demonstrating the use of a modified jack to control directional felling of trees.

Salesmanship

"Salesmanship and the Arborist" was the subject presented by Albert Meserve, United Arborists, Danbury, Conn. He stated that the seller of arboricultural services has three definite objectives: (1) Maintenance of a good tree service; (2) absolute satisfaction on the part of the client for services rendered, and (3) a reasonable profit. Salesmanship, when properly practiced, is the successful coordination of many phases of nursery operation, including sales interviews, sales letters, sales management, advertising, job supervision, collections, credit management, settlements and adjustments, labor relations and office techniques and courtesies.

Speaking on the topic, "Vandalism and Other Problems with City Trees," Carl Schiff, department of parks, Brooklyn, N. Y., pointed out that in Brooklyn (with 3,000,000 res-

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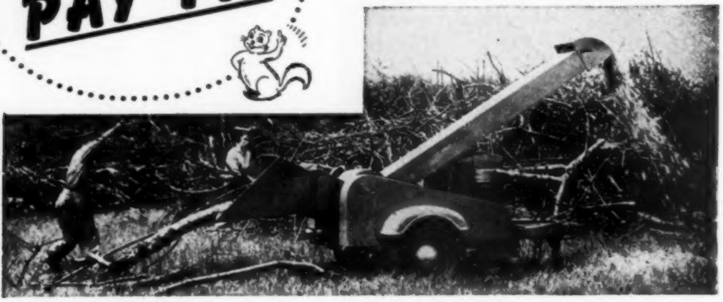

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idents and an estimated 300,000 trees) deliberate and wanton tree vandalism is not a major problem. Some progress in overcoming vandalism has been made in cooperation with the Boy Scouts. Several schools have undertaken tree plantings in connection with Arbor day celebration, with the pupils paying for the trees. By sharing in the actual cost and in planting the trees, pupils have become interested not only in the trees immediately adjacent to the school, but also in their neighborhood trees.

Mr. Schiff said that enlisting the aid of the press by publicizing unusually flagrant or destructive incidents is likely to boomerang and result in an outbreak of similar acts.

He pointed out that builders are required to protect existing trees by boxing them with a temporary wooden guard and to keep deleterious materials away from them. Notice of this park department rule is printed on the building permit, but constant surveillance by the tree inspectors must be maintained in order to insure a minimum of damage resulting from building practices.

Soil Facts

"Soil Management" was discussed by Wallace A. Mitcheltree, extension specialist in soils, Rutgers University, New Brunswick, N. J. He stated that soil is a living, dynamic substance that is fragile and perishable. It must be managed with dexterity and treated with care.

Mr. Mitcheltree brought out the fact there are two kinds of compaction that can occur in a soil. One is physical compaction, caused by traffic. This type of compaction is not critical, since the next tillage operation or a good freezing will restore the soil to its normal condition. The other type of compaction occurs when the soil aggregate (or mixture breaks apart because of an insufficient coating of organic matter and each component element of the soil collects in a separate mass. This is a serious type of compaction.

He said that lime acts as an adjustment valve in a soil. It can be compared to the air jet on a carburetor. If the jet introduces too much air or too little air in the fuel mixture, the engine does not work properly. Similarly, lime adjusts the nutrient release and the bacterial decomposition of the soil, and it should be used to its greatest advantage.

The afternoon program was devoted to demonstrations. Plymouth Cordage Co., Plymouth, Mass., displayed various kinds of rope and showed several methods used in splicing ropes.

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